氣象及磁氣月報

東京

海軍水路部觀象臺

明治二十年一月

MONTHLY REPORT

OF THE

METEOROLOGICAL AND MAGNETICAL OBSERVATIONS,

DURING

JANUARY 1887,

AT THE

NAVAL OBSERVATORY,

IN THE

HYDROGRAPHIC OFFICE.

TOKIO.

観象臺長 海軍五等技師 中川將行 閲
観測士 海軍六等技師 伊藤直温
観測助手 海軍属 嘉納謙作
同 海軍七等技手 小澤兼藏
同 海軍属 日比翁助
同 海軍属 白井正信
同 海軍十等技手 永江董

(Signed) Director.

M. Nakagawa.

Observers.

N. Itō.

Assistants.

K. Kanō.

K. Ozawa.

O. Hibi.

M. Shirai.

T. Nagaye.

REMARKS.

Day.	
1	*f.p.*
2	*f.p.*
3	*f.p.*
4	*f.p.*
5	*f.p.*; E. at 0.58 p.m.
6	*f.p*; *d.* at 9 a.m.; E. at 3.23 p.m.
7	*f.p.*; C. at 9 p.m.
8	*f.d.*; *f.p.* after 11 a.m.; S. or S.W. w_3 after 3 p.m.; E. at 8.02 p.m.
9	*f.p.*
10	B.C. in day; *f.p.* in night; R. at 4 p.m.
11	*f.p.*; S. or S.W. w_4 till 8 a.m.; N. w_3 8 a.m.—4 p.m.
12	*f.p.*; N.W. w_3 in p.m.
13	*f.p*; E. at 6 a.m.
14	*d.*; with B.C. at times; R. 2.30—4.10 p.m.; *r.b.* at 4.10 p.m.; S. or N.W. w_3 in p.m.
15	*f.p.*; S.W. w_3 in a.m.
16	*f.p.*; E. at 8.28 a.m.
17	*f.p.*; E. at 0.20 a.m. and 11.44 p.m.
18	*f.p.* in a.m.; B. in p.m.; C. in night.
19	C. in a.m.; B. in p.m.
20	*f.p.*
21	B.C. in a.m.; C. in p.m.
22	R.; T. at 10.25 a.m.; *d.* after 5 p.m.
23	*d.* in Day; *f.p.* in night.
24	*f.p.*
25	*f.p.*
26	*f.p.*; B.C. 1—5 p.m.
27	*f.p.*; with *d.* at times in p.m.
28	*d.*; T. at 10.30 a.m.; Sleet at 5.50 p.m.; R. afterwards.
29	*f.p.*
30	C.; B. 3—6 p.m.; R. at times after 8 p.m.
31	R. at times until 3 a.m.; *d.*; S. at 6 p.m.; *f.p.* afterwards.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 w (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日 快晴

二日 快晴

三日 快晴

四日 快晴

五日 快晴 午後零時五十八分頃地震ス

六日 快晴午前九時頃暫時薄陰 午後三時二十三分頃地震ス

七日 快晴午後九時頃暫時陰

八日 午前薄晴同十一時頃ヨリ快晴午後三時後南或ハ南西風少强 午後八時二分頃地震ス

九日 快晴

十日 晝間半晴夜間快晴午後四時頃暫時降雨

十一日 快晴午前八時頃マテ南或ハ南西風强後午後四時頃マテ北風稍强

十二日 快晴午後北西風少强

十三日 快晴 午前六時頃地震ス

十四日 薄陰時々半晴午後二時卅分頃ヨリ降雨同四時十分頃虹ヲ現シ其際雨歇ミ後半晴午後南或ハ北西風稍强

十五日 快晴午前南西風稍强

十六日 快晴 午前八時二十八分頃地震ス

十七日 快晴 午前零時二十分及午後十一時四十四分頃地震ス

十八日 午前快晴午後晴夜ニ入リ陰

十九日 午前陰午後晴

二十日 快晴

廿一日 午前半晴午後陰

廿二日 降雨午前十時二十五分頃雷鳴シ午後五時頃雨歇ミ後薄陰

廿三日 晝間薄陰夜間快晴

廿四日 快晴

廿五日 快晴

廿六日 快晴午後一時頃ヨリ同五時頃迄半晴

廿七日 快晴 午後時々薄陰

廿八日 薄陰午前十時三十分頃雷鳴シ午後五時五十分頃ヨリ降雨暫時雪ヲ交ユ

廿九日 快晴

三十日 陰午後三時頃ヨリ同六時頃迄晴同八時頃ヨリ時々降雨

卅一日 午前三時頃迄時々降雨爾後薄陰午後六時過暫時降雪後快晴

地平磁氣力
HORIZONTAL INTENSITY.

Commenced 7^d 3^h 5^m P. M.
Ended 7 4 5 P. M.

七日午後三時五分ヨリ同四時五分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	298 16 50	16 10	16 30				
	W.					2	291 58 20	57 40	58 0
	E.	3	298 17 0	16 20	16 40				
	W.					4	291 58 40	58 0	58 20
	E.	5	298 17 0	16 20	16 40				
平均	Means	298° 16′ 36″.7				.... 291° 58′ 10″.0			
西 West.	W.					6	291 56 50	56 10	56 30
	E.	7	298 12 50	12 0	12 25				
	W.					8	291 57 0	56 20	56 40
	E.	9	298 13 0	12 20	12 40				
	W.					10	291 57 10	56 30	56 50
平均	Means.	298° 12′ 32″.5				............291° 56′ 46″.0			

平均温度 Mean Temperature $t = 62^\circ.4$ Fah.
偏針角 Angle of Deflection $u = 3^\circ\ 8'\ 34''.8$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h m s	温度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m s
0	3 52 32.8	61.0	3.2	57.7	
10	53 18.3				
20	54 4.0				
31	54 54.0				
41	55 39.8				
51	56 25.2				
100	4 0 9.0				7 36.2
110	0 54.1				35.8
120	1 39.9				35.9
131	2 30.0				36.0
141	3 15.7				35.9
151	4 1.4	60.4	5.7	45.0	39.2
平均 Means.		66.7	....		7 36.00

捩拗差 Mean effect of 90° of Torsion $v = 2.31$
時儀日差 Daily rate $s = 3.67$ gaining.

成果 Resulting absolute value X = 6.3329

Commenced 21^d 2^h 18^m P. M.
Ended 21 3 20 P. M.

二十一日午後二時十八分ヨリ同三時二十分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	176 10 20	9 40	10 0				
	W.					2	169 49 40	49 0	49 20
	E.	3	176 10 20	9 40	10 0				
	W.					4	169 49 40	49 0	49 20
	E.	5	176 10 10	9 20	9 45				
平均	Means.	176° 9′ 55″.0				.... 169° 49′ 20″.0			
西 West.	W.					6	169 47 20	49 40	47 20
	E.	7	176 5 30	4 40	5 5				
	W.					8	169 47 40	47 0	47 20
	E.	9	176 5 50	5 0	5 25				
	W.					10	169 47 50	47 0	47 25
平均	Means.	176° 5′ 15″.0				.... 169° 47′ 15″.0			

平均温度 Mean Temperature $t = 53^\circ.0$ Fah.
偏針角 Angle of Deflection $u = 3^\circ 9' 18''.8$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h m s	温度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m s
0	3 6 22.0	54.2	8.0	51.3	
10	7 7.4				
20	7 52.9				
31	8 43.3				
41	9 28.8				
51	10 14.0				
100	13 57.0				7 35.0
110	14 42.4				35.0
120	15 27.9				35.0
131	16 18.3				35.0
141	17 3.8				35.0
151	17 49.0	55.0	19.4	39.9	35.0
平均 Means.		54.6	....		7 35.00

捩拗差 Mean effect of 90° of Torsion $v = 2.45$
時儀日差 Daily rate $s = 8^s.49$ niso

成果 Resulting absolute value X = 6.3307

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 11.6	5	4 10.2	9	4 9.5	13	4 10.5	17	4 11.0	21	4 10.9	25	4 9.0	29	4 11.1
2	4 11.4	6	4 10.2	10	4 8.7	14	4 10.9	18	4 13.0	22	4 11.0	26	4 10.1	30	4 9.6
3	4 10.7	7	4 10.0	11	4 10.6	15	4 10.0	19	4 12.7	23	4 10.6	27	4 9.4	31	4 9.6
4	4 10.3	8	4 10.3	12	4 10.2	16	4 10.2	20	4 11.2	24	4 9.0	28	4 9.4		

平均 Mean = 4° 10′.42

磁氣傾差
Magnetic Inclination.

Commenced $7^d\ 4^h\ 28^m$ P. M.
Ended 7 4 50 P. M.

七日午後四時二十八分ヨリ同時五十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 27	49 26	49 37	49 33	49 38	49 36	50 12	50 11	49 39	49 39	49 25	49 26	49 53	49 52	49 54	49 56
49 24	49 23	49 36	49 34	49 44	49 43	50 9	50 6	49 45	49 46	49 32	49 35	49 48	49 47	49 52	49 54
49 25.5	49 24.5	49 36.5	49 33.5	49 41.0	49 39.5	50 10.5	50 8.5	49 42.0	49 42.5	49 28 5	49 30.5	49 50.5	49 49.5	49 53.0	49 55.0
49 25.0		49 35.0		49 40.2		50 9.5		49 42.3		49 29.5		49 50.0		49 54.0	
49 30.0				49 54.8				49 35.9				49 52 0			
49 42.4								49 44.0							

成果 Resulting Dip = 49° 43′.2

Commenced $21^d\ 3^h\ 53^m$ P. M.
Ended 21 4 10 P. M.

二十一日午後三時五十三分ヨリ同四時十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 33	49 31	49 38	49 36	49 47	49 44	49 33	49 30	49 50	49 51	49 30	49 34	49 47	49 50	49 32	49 36
49 33	49 32	49 44	49 42	49 46	49 44	49 32	49 28	49 59	50 0	49 31	49 35	49 44	49 46	49 32	49 36
49 33.0	49 31.5	49 41.0	49 39.0	49 46 5	49 44.0	49 32.5	49 29.0	49 54.5	49 55.5	49 30.5	49 34.5	49 45.5	49 48.0	49 32.0	49 36.0
49 32.2		49 40.0		49 45.2		49 30.8		49 55.0		49 32.5		49 46.8		49 34.0	
49 36.1				49 38.0				49 43.8				49 40.4			
49 37.1								49 42.1							

成果 Resulting Dip = 49° 39′.6

天候

WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	1	...	...	...	2	...	...	...	...	...	5	0.9	...
2	...	2	...	...	1	...	...	...	...	...	5	0.6	...
3	...	1	...	...	...	...	...	...	...	...	7	0.1	...
4	...	...	2	1	...	...	...	...	...	...	5	0.4	...
5	...	1	...	...	...	...	...	...	...	...	7	0.1	...
6	1	...	1	...	...	...	1	...	...	...	5	1.5	...
7	...	...	2	...	1	...	...	...	...	...	5	1.4	...
8	...	...	...	1	1	2	...	...	...	...	4	3.1	...
9	...	...	...	...	...	...	...	...	...	...	8	0.0	...
10	...	...	2	...	...	3	...	...	...	...	3	4.3	...
11	1	1	...	...	...	...	...	...	...	...	6	0.3	...
12	...	...	...	...	...	...	...	...	...	...	8	0.0	...
13	2	...	2	...	...	...	...	...	...	...	4	1.1	...
14	...	1	2	3	...	1	...	1	...	...	...	4.6	...
15	...	...	...	...	...	...	...	...	...	...	8	0.0	0.10
16	...	1	...	...	...	...	...	...	...	...	7	0.1	...
17	...	2	...	...	...	...	...	...	...	...	6	0.3	...
18	1	...	4	...	...	...	...	...	...	...	3	4.3	...
19	...	1	3	2	1	...	...	...	...	...	1	5.9	...
20	1	...	2	1	1	2	...	...	...	...	1	1.0	...
21	...	...	2	4	...	1	1	...	...	...	...	7.0	...
22	...	...	6	...	...	...	...	2	...	...	...	8.8	0.04
23	...	2	2	2	...	1	...	...	...	...	1	3·9	0.09
24	...	...	1	...	...	1	...	...	...	...	6	1.0	...
25	...	...	...	...	...	...	...	...	...	...	8	0.0	...
26	...	1	...	...	...	...	...	...	...	...	7	1.0	...
27	1	1	1	2	...	...	...	...	...	...	3	2.9	...
28	1	...	3	2	...	...	...	...	1	...	1	7.8	...
29	2	...	...	...	...	...	...	...	...	...	6	0.6	...
30	1	...	1	2	3	...	...	1	...	...	...	8.8	...
31	...	1	2	3	...	...	...	...		...	2	6.3	...
合計 Sums.	12	15	38	23	10	11	2	4	1	...	132	...	0.23
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	2.5	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest 方位 Directions.	最强 Strongest 速力 Miles.
1	...	1	7.1	...	...	...	...	6	45.0	5	18.4	2	7.7	4	25.7	6	32.3	24	136.2	S.E.	8.8
2	...	11	75.3	...	...	...	...	...	...	...	...	4	59.4	2	18 7	7	49.2	24	202.6	S.W.	19.7
3	...	1	6.9	...	...	...	...	..	...	7	38.0	...	...	...	...	16	127.4	24	172.3	N.W.	12.2
4	...	6	45.6	4	23.3	...	...	6	41.7	...	...	...	...	...	...	8	52.6	24	163 2	N.	10 5
5	...	7	108.4	...	...	...	...	...	...	...	...	...	...	...	...	17	149.6	24	258.0	N.W.	19.5
6	...	...	...	...	...	...	...	...	...	...	...	4	14.9	3	17.2	17	72.5	24	104.6	N.W.	7.6
7	...	6	31.0	1	7.1	6	15.5	..	...	...	...	...	...	...	...	11	44.6	24	98.2	N.	7.3
8	...	2	4.7	...	...	...	...	3	19.5	5	95.8	4	39.7	...	...	10	56.9	24	216.6	S.	23.7
9	...	17	100.2	...	...	2	8.1	1	3.2	...	...	1	13.2	...	...	3	11.5	24	136.2	N.	14.8
10	...	9	38.4	...	...	...	...	...	...	...	...	1	10.6	...	...	14	48.1	24	97.1	S.W.	10.6
11	...	9	147.8	...	...	...	...	...	...	3	60.7	4	120.1	...	...	8	90.4	24	419.0	S.W.	*31.8
12	...	...	...	...	..	...	...	...	...	...	...	...	...	4	52.5	20	215.0	24	267.5	N.W.	21.5
13	...	8	88.1	1	4.3	8	30.6	...	...	...	...	...	...	...	...	7	70.3	24	193.3	N.	16.4
14	...	6	82·7	...	...	...	...	...	...	5	100.3	...	...	...	...	13	102.7	24	285.7	S.	27.0
15	...	2	10.9	3	9.3	...	...	...	...	...	...	15	256.9	2	13.2	2	21.1	24	311.4	S.W.	26.6
16	...	1	3 3	5	27.9	3	18.8	3	18.1	1	15.1	11	153.6	...	...	..	...	24	236.8	S.W.	18.2
17	...	7	90 8	3	18.0	...	...	...	...	...	...	...	...	1	3.6	13	43.2	24	155.6	N.	15.8
18	...	5	45.1	9	70.2	...	...	...	...	...	...	...	...	...	...	10	66.8	24	182.1	N.W.	12.5
19	...	20	253.9	4	41.2	...	...	...	...	...	...	...	...	...	...	...	..	24	295.1	N.	16.0
20	...	12	115.6	6	31.3	...	...	...	...	...	...	...	...	...	...	6	62.2	24	209.1	N.	14.0
21	...	16	110.6	7	18.9	...	...	...	...	...	...	...	...	...	...	1	7.7	24	137.2	N.	9.5
22	...	11	52.0	...	...	...	...	...	...	...	...	3	26.8	...	...	10	36.9	24	115.7	S.W.	12.0
23	...	10	70.0	1	7.0	8	43.5	...	...	...	...	...	...	...	...	5	47.7	24	168·2	N.	11.8
24	...	10	68.7	1	4.4	...	...	3	16.0	3	29.0	4	45.0	3	21.5	...	...	24	184.6	S.W.	15.3
25	...	2	7.8	...	...	1	6.6	3	18.1	3	28.6	5	43.2	2	6.2	8	29.1	24	139.6	S.W.	12·3
26	...	4	46.8	...	...	3	13.5	1	4.0	...	...	1	3.2	5	37.6	10	85.9	24	191.0	N.	16.3
27	...	9	65.1	1	4.9	3	12.8	3	13.8	...	...	...	...	3	6.7	5	18.7	24	122.0	N.	12.0
28	...	8	63 4	4	15.3	...	...	...	...	...	...	1	2.8	2	4.5	9	54.7	24	140.7	N.W.	10.1
29	...	4	26.4	...	...	...	...	...	...	...	...	...	...	5	35.8	15	114.4	24	176.6	N.W.	13.6
30	...	1	4.9	...	...	...	...	2	15.5	11	153.5	...	...	...	....	10	68.7	24	242.6	S.	23.5
31	...	6	61.1	1	6.3	2	10.4	...	...	2	24.4	9	122.2	1	13.6	3	32.3	24	270.8	S.W.	22.7
計合 Sums.	...	211	1832.6	15	289.9	36	159.8	31	194.9	45	563.8	69	919.3	37	256.8	264	1812.5	744	6029.6	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.W.	31.8

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	67	67	55	44	55	73	86	84
2	64	67	63	47	44	58	70	76
3	72	74	58	44	52	73	75	69
4	63	72	62	47	51	66	73	88
5	90	82	73	45	46	60	65	68
6	67	76	66	51	57	69	84	82
7	88	82	70	52	51	80	86	85
8	83	88	74	62	67	65	53	59
9	93	93	76	51	49	51	61	70
10	87	93	71	63	64	75	86	80
11	72	75	63	41	41	49	61	64
12	69	61	49	43	42	53	45	47
13	52	64	57	47	53	72	77	82
14	75	84	72	66	91	81	72	59
15	67	66	58	49	43	53	61	64
16	65	71	58	44	50	63	73	80
17	75	71	65	52	51	51	55	66
18	57	83	52	46	43	56	63	66
19	68	65	58	55	57	66	75	75
20	73	69	66	60	60	77	82	82
21	76	77	68	61	60	84	84	80
22	84	97	92	96	98	89	92	77
23	73	80	64	58	75	81	92	74
24	76	67	63	50	58	62	60	80
25	83	72	65	54	59	63	68	61
26	76	67	59	53	47	57	62	67
27	76	64	62	43	50	59	61	57
28	58	60	65	56	57	44	93	89
29	76	59	54	43	44	62	68	73
30	69	71	67	57	73	77	92	75
31	94	69	58	56	52	58	53	44
平均 Means.	74	74	64	53	56	65	72	72

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.140	0.098	0.166	0.204	0.235	0.265	0.229	0.201
2	0.197	0.209	0.236	0.231	0.209	0.183	0.172	0.154
3	0.164	0.176	0.186	0.206	0.225	0.224	0.197	0.158
4	0.148	0.154	0.178	0.188	0.214	0.237	0.226	0.194
5	0.168	0.172	0.208	0.213	0.193	0.188	0.174	0.162
6	0.144	0.139	0.167	0.213	0.236	0.217	0.225	0.184
7	0.162	0.145	0.203	0.238	0.273	0.258	0.274	0.249
8	0.221	0.225	0.229	0.299	0.342	0.281	0.235	0.257
9	0.246	0.213	0.238	0.305	0.307	0.221	0.209	0.206
10	0.187	0.178	0.207	0.219	0.256	0.262	0.238	0.309
11	0.346	0.400	0.263	0.193	0.171	0.148	0.150	0.140
12	0.131	0.107	0.150	0.171	0.164	0.149	0.146	0.150
13	0.152	0.163	0.173	0.197	0.224	0.210	0.230	0.190
14	0.173	0.170	0.185	0.294	0.413	0.241	0.190	0.144
15	0.131	0.143	0.156	0.179	0.182	0.156	0.157	0.161
16	0.167	0.166	0.188	0.206	0.229	0.204	0.186	0.151
17	0.146	0.131	0.168	0.205	0.204	0.148	0.136	0.125
18	0.106	0.136	0.129	0.180	0.148	0.156	0.158	0.149
19	0.149	0.133	0.140	0.145	0.190	0.182	0.174	0.156
20	0.151	0.127	0.159	0.193	0.217	0.215	0.192	0.174
21	0.151	0.146	0.167	0.211	0.240	0.234	0.216	0.200
22	0.205	0.225	0.235	0.298	0.428	0.266	0.270	0.244
23	0.204	0.204	0.186	0.225	0.273	0.260	0.235	0.168
24	0.140	0.136	0.157	0.179	0.212	0.193	0.166	0.166
25	0.145	0.139	0.138	0.133	0.217	0.190	0.163	0.131
26	0.130	0.130	0.169	0.193	0.174	0.133	0.121	0.102
27	0.107	0.093	0.122	0.127	0.152	0.146	0.134	0.098
28	0.096	0.100	0.116	0.135	0.161	0.186	0.201	0.182
29	0.139	0.135	0.164	0.176	0.179	0.174	0.151	0.142
30	0.133	0.128	0.142	0.193	0.297	0.286	0.362	0.356
31	0.249	0.214	0.179	0.188	0.178	0.135	0.103	0.073
平均 Means.	0.165	0.162	0.178	0.204	0.230	0.205	0.194	0.177

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	25.8	18.0	29.9	35.1	38.7	41.8	38.0	34.7
2	34.2	35.7	38.8	38.2	35.7	32.3	30.8	28.1
3	30.1	31.3	32.7	35.3	37.6	37.4	34.2	28.8
4	27.2	28.2	31.6	33.0	36.2	38.9	37.7	33.8
5	30.2	30.8	35.5	36.1	33.6	33.0	31.0	29.4
6	26.5	25.7	30.0	36.1	38.8	36.6	37.5	32.5
7	29.4	26.6	34.9	39.1	42.6	41.1	42.7	40.2
8	37.1	37.6	38.0	45.0	48.5	43.4	38.7	41.0
9	39.9	36 1	39.0	45.5	45.7	37.1	35.7	35.3
10	32.9	31.6	35.4	36.9	40.9	41.5	39 0	45.9
11	48.9	52.8	41.6	33.7	30.6	27.2	27 5	25 9
12	24.3	19.9	27.5	30.6	29.6	27.4	26.8	27.5
13	27.8	29.5	30.9	34.2	37.4	35.8	38.1	33 3
14	30.9	30.4	32.6	44.5	53.7	39.4	33.3	26.5
15	24 3	26.3	28.5	31.8	32.2	28.5	28.6	29.2
16	30.0	29.9	33.1	35.3	38.0	35.1	32.8	27.6
17	26.8	24.4	30.2	35.2	35.0	27.1	25 2	23.3
18	19.7	25.2	24.0	31.9	27.2	28.5	28.7	27.3
19	27.3	24.6	25.8	26.6	33.3	32.2	31.1	28.4
20	27.6	23.7	28.9	33.7	36.6	36.4	33.5	31.0
21	27.7	26.9	30.0	35.9	39.3	28.6	36.5	34.6
22	35.2	37.6	38.7	44.9	54.7	41.9	42.3	39.7
23	35.1	35.0	32.7	37.6	42.6	41.3	38.7	30.2
24	25.9	25.1	28.6	31.8	36.0	33.6	29.8	29 8
25	26.6	25.7	25.5	34.7	36.6	33.3	29.5	24.3
26	24.1	24.1	30.3	33.7	31.0	24.7	22.6	18.8
27	19.9	16.8	22.9	23.7	27.9	26.9	24.9	18.0
28	17.6	18.4	21.7	25.0	29.2	32.7	34.7	32.1
29	25.7	25.0	29.6	31.4	31.8	31.0	27.7	26.1
30	24.7	23.9	26.2	33.6	44.8	43 8	50.1	49.6
31	40.2	36.3	31.7	33.0	31.6	25.0	19.0	11.7
平均 Means.	29.1	28.5	31.2	34.9	37.3	34.3	33.1	30.5

寒暖計
THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	35.5	31.0	45.0	56.7	55.0	50.0	42.0	39.3
2	46.0	46.2	51.0	58.3	57.3	46.4	39.8	34.7
3	38.5	39.0	46.5	57.0	55.1	45.5	41.8	38.2
4	39.0	36.2	43.8	53.0	54.3	50.0	44.8	37.2
5	32.9	35.6	43.7	57.0	54.5	46.2	41.9	39.2
6	36.0	32.0	40.7	53.9	53.5	46.0	42.0	37.7
7	32 3	31.0	44.0	56.8	60.9	47.0	46.7	44.5
8	41.8	41.0	45.9	57.7	59.2	55.2	55.8	55.3
9	41.9	38 0	46.2	64.0	65.0	55 3	48.6	44.5
10	36.5	33.4	44.3	49.0	52.7	49.2	43.0	52.2
11	58.0	60.5	53.9	57.4	53.5	45.5	40.0	37.0
12	33.2	31.0	45.2	52.7	52.3	43.6	47.2	46 6
13	44.7	40.8	45.0	54 0	54 5	44.3	45 0	38.2
14	38.0	34.7	41.2	55.8	56.3	45.0	41.8	40.0
15	34.5	36.8	42.5	50.8	54.0	44.3	40.8	40.2
16	40.8	38.4	46.9	57.5	56.7	47.5	40.7	33.0
17	33.8	32.9	41.0	52.8	53.0	43.9	40.0	33.6
18	32.8	29.5	40.0	51.0	49.0	43.2	40.5	37.7
19	37.0	35.0	39.0	41.8	48.0	43 0	38.4	35.2
20	35.1	32.5	39.4	47.0	50.0	43.0	38.4	36.0
21	34.2	33.1	39.9	48.8	52.8	43.0	41.0	40.1
22	39.6	38.3	41.0	46.0	55.3	45.3	44.5	46.5
23	43.2	40.6	44.0	52.3	50.4	46.8	41.0	37.8
24	32.3	35.0	40.0	49.7	50.3	46.2	42.8	35.0
25	30.2	28.6	36.0	51.0	50.7	45.4	39.3	36.0
26	30.4	33.7	44 0	50.3	51.8	38.7	34.3	28 0
27	26.0	27.0	34.0	44.2	45.2	40.4	37.0	31.0
28	30.0	30 0	32.2	39.7	43.6	38.5	36.6	35.0
29	32.0	38.0	45.3	53.3	53.2	43.3	37.3	33.7
30	33.7	31 9	35.8	48 3	53.2	50.9	52.3	57.8
31	41.8	46.0	46.0	48.3	48.8	38.6	33.8	30.0
平均 Means.	36.8	36.1	42.7	52.1	53.2	45.5	41 9	39.1

改正晴雨計

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.906	29.921	29.916	29.815	29.733	29.694	29.668	29.596
2	29.502	29.496	29.575	29.557	29.560	29.600	29.594	29.596
3	29.612	29.702	29.760	29.742	29.712	29.724	29.765	29.782
4	29.830	29.884	29.940	29 924	29.902	29.896	29.872	29.848
5	29.793	29.786	29.858	29.870	29.922	30.016	30.107	30.139
6	30.160	30.187	30.234	30.185	30.140	30.150	30.167	30.143
7	30.132	30.149	30.179	30.139	30.105	30.128	30.159	30.153
8	30.142	30.142	30.143	30.068	29.988	29.944	29.955	29.918
9	29.903	29.904	29.944	29.936	29.986	30.036	30.107	30 126
10	30.129	30.140	30.181	30.086	30.059	30.036	29 969	29.860
11	29.757	29.648	29.722	29.773	29.836	29.887	29.926	29.930
12	29.932	29.961	30.002	29.979	29.961	30.006	30.036	30.058
13	30.130	30.174	30.280	30.235	30.200	30.235	30.230	30.168
14	30.082	30.040	29.959	29.745	29.521	29.418	29.479	29.586
15	29.656	29.680	29.719	29.705	29.696	29.744	29.740	29.784
16	29.797	29.806	29.876	29.842	29.844	29.877	29.897	29.896
17	29.907	29.925	29.966	29.938	29.940	29.987	30.029	30.050
18	30.041	30.053	30.075	30.035	29.979	30.021	30.059	30.063
19	30.072	30.105	30.127	30.119	30.096	30.132	30.171	30.177
20	30.174	30.207	30.224	30.203	30.170	30.206	30.233	30.229
21	30.224	30.233	30.256	30.215	30.149	30.151	30.159	30.120
22	30.052	29.985	29.944	29.841	29.741	29.765	29.806	29.830
23	29.835	29.858	29.901	29.862	29.853	29.900	29.961	29.992
24	30.028	30.053	30.103	30.083	30.019	30.000	29.789	29.725
25	29.999	30.035	30.032	29.936	29.879	29.839	29.822	29.806
26	29.798	29.814	29.823	29.794	29.796	29.910	29.956	30.012
27	30.013	30.036	30.119	30.088	30.076	30.118	30.142	30.112
28	30.113	30.109	30.096	30.092	30.010	29.992	29.918	29.876
29	29.878	29 954	30.037	30.033	30.029	30.087	30.164	30.178
30	30.173	30.159	30.148	30.036	29.891	29.833	29.719	29.549
31	29.463	29.457	29.515	29.479	29.471	29.534	29.621	29.613
平均 Means.	29.943	29.955	29.989	29.947	29.912	29.931	29.943	29.933

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正晴雨計 Barometer. Reduced to 32° F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暖計 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點温度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日射熱 高極 Vacuum solar radiation Max.	日射熱 高極 Solar radiation Max.	地射熱 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.781	29.921	29.596	44.3	56.7	30.0	32.8	0.192	66	117.9	75.7	19.3
2	29.560	29.600	29.496	47.5	58.7	33.7	34.2	0.199	61	119.0	77.2	21.7
3	29.725	29.782	29.610	45.2	57.4	33.4	33.4	0.193	65	120.8	70.9	21.0
4	29.887	29.940	29.830	44.8	56.2	33 7	33.3	0.192	65	115.8	72.9	20.5
5	29.936	30.139	29.786	43.9	57.0	31.2	32.5	0.185	66	117.8	72.8	20.0
6	30.171	30.234	30.140	42.7	55.2	29.8	33.0	0.191	69	112.2	72.0	18.8
7	30.143	30.179	30.105	45.4	61.0	29.7	37.1	0.225	74	118.0	76.5	18.1
8	30·038	30.147	29.918	51.5	60.0	39 0	41.2	0.261	69	117.2	78.9	29.0
9	29.993	30.126	29.903	50.4	*66.1	37.3	39 3	0.243	68	115·2	*80.0	23.8
10	30.058	30.181	29.860	45.0	54.8	32 9	38.0	0 232	77	110.7	70.6	21.5
11	29.810	29.930	29.648	50.7	60.8	36.5	36.0	0.226	58	115.0	71.0	22.5
12	29.992	30.058	29.932	44.0	53.6	29.5	26 7	0.146	51	115 2	69 8	16.5
13	30.207	*30.280	30.130	45 8	55.3	37.2	33.4	0 192	63	118.2	77.1	22.3
14	29.729	30 082	*29.418	44.1	61.0	34.0	36.4	0.226	75	118.2	77.3	22.5
15	29.716	29.784	29.656	43.0	55.8	33 5	28.7	0.158	58	115.6	74.0	21.4
16	29.854	29.897	29.797	45.2	58.8	32.5	32.7	0.187	63	*122.7	79.8	20.0
17	29.968	30.050	29.907	41.4	54.7	27.9	28.4	0.158	61	112.0	69.7	16.5
18	30.041	30.075	29.979	40.5	51.2	28.1	26 6	0.145	58	113.5	69.5	15.2
19	30.125	30.177	30.072	39.7	48.0	34.0	28.7	0.159	65	107.0	64.1	24 3
20	30.206	30.233	30.170	40.2	50.3	31.8	31.4	0.179	71	111.0	70.2	21.4
21	30.188	30.256	30.149	41.6	53.1	32 1	33.7	0.196	74	118 8	75.0	24.1
22	29.871	30.052	29.741	44.6	56.2	37.5	41.9	0.271	91	75.8	60.2	29.9
23	29.895	29.992	29.835	44.5	55.0	37.0	36 7	0.219	75	111.2	74.0	25.0
24	29.975	30.103	29.725	41.4	51.8	31.8	30.1	0.169	65	113.7	72.0	18.0
25	29.919	30.035	29.806	39.7	52.1	26.1	29 5	0.157	66	108.0	68.4	13.6
26	29.863	30.012	29.794	38.9	54.1	27.8	26.2	0.144	61	111.0	74.7	12.5
27	30.038	30.142	30.013	35.6	48.7	*24.5	22 6	0.122	59	109 8	66.2	*11.5
28	30 026	30.113	29.876	35.7	44 2	28.6	26.4	0.147	65	108.1	65.0	20.2
29	30.045	30.178	29.878	42.0	54.9	30.0	28.5	0.158	60	116.8	71.3	16.8
30	29.939	30.173	29.549	45.5	57.8	30.2	37.1	0.237	73	119.8	70.2	19.5
31	29.519	29.621	29.457	41.7	57.8	29.5	28.6	0.165	61	111.6	68 6	16.0
平均 Means.	29.944	...	...	43.4	...	...	32.4	0.189	66	...	...	...
至極 Max. & Min.	...	30.280	29.418	...	66.1	24.5	...	...	...	122.7	80.0	11.5

凡例

一晴雨計ハ氷點及海面ニ改正ス
一寒暖計ハ都テ華氏ノ度表ヲ用フ
一露點、濕氣、水氣張力、ハ燥濕兩球寒暖計ノ實驗ヨリ算出ス
一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス
一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス
又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ逐日午前七時傾差及地平磁氣力ハ逐月兩回之ヲ觀測ス
一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ
一偏針角ノ觀測ニ於テ兩磁竿中心ノ相距ハ一、三英尺トス
一搖振ノ時ノ觀測ニ用フル磁竿ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Beckley's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer. *

* The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection = 1. 3 feet.

The angular value of one scale division of the vibration magnet = 2′.37.

觀象臺長 海軍五等技師 中川將行 閲
觀測士 海軍六等技師 伊藤直温
觀測助手 海軍屬 嘉納謙作
同 海軍屬 日比翁助
同 海軍屬 白井正信
同 海軍八等技手 小澤兼藏
同 海軍十等技手 永江董

(Signed) Director.
M. Nakagawa.
Observer.
N. Itō.
Assistant.
„ K. Kanō.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	C., R. 3—9 a.m.; B. at times after 8 p.m.
2	*d.* or B.C.; *f.p.* after 8 p.m.
3	*f.p.*; E. at 10.42 p.m.
4	*d.*; B.C. at times in night.
5	C.; with B.C. at times in a.m.; R. in p.m.
6	C.; R. at times after 1 p.m.
7	C.; D. at 9 p.m.; *f.p.* after 10 p.m.
8	*f.p.*
9	*d.*; with B. at times.
10	C.; R. at times 7 a.m.—4 p.m.
11	C.; B. at times after 2 p.m.
12	*f.d.*; *f.p.* after 10 a.m.
13	*f.p.*; *d.* at 6 a.m.
14	*d.*, with B.C. at times.
15	C.; D. 4.50—7.15 a.m.; E. at 3.55 p.m.
16	*f.p.* in day; *d.* in night.
17	*d.*; D. at 8.45 a.m.; S.W. w_2 after 7 p.m.
18	*f.p.*, S.W. w_2 till 4 a.m.
19	*f.p.*, with *d.* at times.
20	*f.p.*; *d.* after 9 p.m.; E. at 0.02 p.m.
21	*f.p.*
22	*f.p.*
23	*d.*, with B. at times.
24	*f.p.*; *d.*, with D. at times after 5 a.m.
25	Variable weather with R. at times; *f.p.* after 4 p.m.
26	*f.p.*
27	*f.p.*
28	*d.*, with B. at times.
29	*d.*, with B. at times; F. 6—9 a.m.; S.W. w_3 after 4 p.m.
30	*f.p.*, E. at 9.24 a.m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1 = slight, w_5 = strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日	陰午前三時ヨリ同九時マデ降雨午後八時後時々晴
二日	薄陰或ハ半晴午後八時後快晴
三日	快晴　午後十時四十二分頃地震ス
四日	薄陰夜來時々半晴
五日	午前陰時々半晴午後降雨
六日	陰午後一時後時々降雨
七日	陰午後九時頃暫時微雨同十時後快晴
八日	快晴
九日	薄陰時々晴
十日	陰午前七時頃ヨリ午後四時頃マテ時々降雨
十一日	陰午後二時後時々晴
十二日	薄晴午前十時後快晴
十三日	快晴午前六時頃暫時薄陰
十四日	薄陰時々半晴
十五日	陰午前四時五十分頃ヨリ同七時十五分頃マテ微雨　午後三時五十五分頃地震ス
十六日	晝間快晴夜間薄陰
十七日	薄陰午前八時四十五分頃暫時疎雨降ル午後七時後南西風稍强
十八日	快晴午前四時頃迄南西風稍强
十九日	快晴時々薄陰
二十日	快晴午後九時頃ヨリ薄陰　午後零時二分頃地震ス
廿一日	快晴
廿二日	快晴
廿三日	薄陰時々晴
廿四日	午前五時頃マテ快晴爾後薄陰時々微雨
廿五日	午後四時頃マテ天候不定時々降雨シ爾後快晴
廿六日	快晴
廿七日	快晴
廿八日	薄陰時々晴
廿九日	薄陰時々晴午前六時頃ヨリ同九時頃マテ濃霧午後四時後南西風强
三十日	快晴　午前九時二十四分頃地震ス

地平磁氣力
HORIZONTAL INTENSITY.

Commenced 4^d 3^h 15^m P. M.
Ended 4 4 22 P. M.

四日午後三時十五分ヨリ同四時二十二分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	302 57 20	56 40	57 0				
	W.					2	296 34 40	34 0	34 20
	E.	3	302 57 40	57 0	57 20				
	W.					4	296 34 40	34 0	34 20
	E.	5	302 57 40	57 0	57 20				
平均	Means		302° 57′ 13″.3				.... 296° 34′ 20″.0		
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
西 West.	W.					6	296 33 20	32 40	33 0
	E.	7	302 53 20	52 40	53 0				
	W.					8	296 33 20	32 40	33 0
	E.	9	302 53 20	52 40	53 0				
	W.					10	296 33 20	32 40	33 0
平均	Means.		302° 53′ 0″.0				.... 296° 33′ 0″.0		

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme. Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	4 10 7.2	65.3	2.5	58.2	
10	10 52.5				
20	11 38.0				
31	12 28.0				
41	13 13.3				
51	13 58.8				
100	17 40.9				7 33.7
110	18 26.4				33.9
120	19 11.8				33.8
131	20 1.5				33.5
141	20 47.0				33.7
151	21 32.3	65.0	14.6	45.2	33.5
平均 Means.		65.2	....		7 33.68

平均温度 Mean Temperature $t = 66°.6$ Fah.
偏針角 Angle of Deflection $u = 3° 10′ 43″.3$
捩振差 Mean effect of 90° of Torsion $v = 2.05$
時儀日差 Daily rate $s = 2^s.31$ gaining.

成果 Resulting absolute value $X = 6.3375$

Commenced 26^d 2^h 0^m P. M.
Ended 26 3 3 P. M.

二十六日午後二時零分ヨリ同三時三分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	176 31 0	30 20	30 40				
	W.					2	170 8 20	7 40	8 0
	E.	3	176 31 40	31 0	31 20				
	W.					4	170 8 40	8 0	8 20
	E.	5	176 32 0	31 20	31 40				
平均	Means.		176° 31′ 13″.3				.... 170° 8′ 10″.0		
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
西 West.	W.					6	170 7 40	7 0	7 20
	E.	7	176 27 20	26 40	27 0				
	W.					8	170 8 0	7 20	7 40
	E.	9	176 27 40	27 0	27 20				
	W.					10	170 8 0	7 20	7 40
平均	Means.		176° 27′ 10″.0				.... 170° 7′ 33″.3		

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	2 46 16.0	61.8	4.0	56.5	
10	47 1.5				
20	47 46.8				
31	48 36.5				
41	49 22.0				
51	50 7.7				
100	53 50.0				7 34.0
110	54 35.3				33.8
120	55 20.9				34.1
131	56 10.8				34.3
141	57 56.0				34.0
151	58 41.5	61.7	17.2	43.2	33.8
平均 Means.		61.8	....		7 34.00

平均温度 Mean Temperature $t = 63°.0$ Fah.
偏針角 Angle of Deflection $u = 3° 10′ 40″.0$
捩振差 Mean effect of 90° of Torsion $v = 2.30$
時儀日差 Daily rate $s = 1^s.43$ gaining.

成果 Resulting absolute value $X = 6.3264$

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS, NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 9.5	5	4 10.0	9	4 8.8	13	4 9.5	17	4 7.9	21	4 8.8	25	4 11.4	29	4 10.2
2	4 8.3	6	4 8.2	10	4 8.5	14	4 8.2	18	4 10.3	22	4 8.5	26	4 10.7	30	4 11.7
3	4 9.7	7	4 7.0	11	4 9.3	15	4 10.2	19	4 8.8	23	4 11.6	27	4 10.5		
4	4 9.9	8	4 8.1	12	4 10.2	16	4 7.9	20	4 9.7	24	4 13.1	28	4 9.4		

平均 Mean = 4° 9′.53

磁氣傾差
Magnetic Inclination.

Commenced $4^d\ 4^h\ 50^m$ P. M.
Ended 4 5 15 P. M.

四日午後四時五十分ヨリ同五時十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 45	49 45	49 55	49 56	49 42	49 40	49 43	49 41	49 40	49 42	49 7	49 12	49 53	49 55	49 33	49 33
49 44	49 44	49 55	49 55	49 41	49 41	49 50	49 49	49 47	49 50	49 7	49 11	49 54	49 55	49 31	49 32
49 44.5	49 44.5	49 55.0	49 55.5	49 41.5	49 40.5	49 46.5	49 45.0	49 43.5	49 46.0	49 7.0	49 11.5	49 53.5	49 55.0	49 32.0	49 32.5
49 44.5		49 55.3		49 41.0		49 45.8		49 44.7		49 9.3		49 54.2		49 32.2	
49 49.9				49 43.4				49 27.0				49 43.2			
49 46.6								49 35.1							

成果 Resulting Dip = 49° 40′.9

Commenced $26^d\ 3^h\ 30^m$ P. M.
Ended 26 3 58 P. M.

二十六日午後三時三十分ヨリ同三時五十八分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 28	49 25	49 58	49 56	49 40	49 39	49 22	49 19	49 45	49 46	49 11	49 12	49 53	49 53	49 44	49 46
49 26	49 24	49 56	49 55	49 46	49 43	49 21	49 17	49 42	49 43	49 11	49 14	49 50	49 50	49 40	49 43
49 27.0	49 24.5	49 57,0	49 55.5	49 43.0	49 41.0	49 21.5	49 18.0	49 43.5	49 44.5	49 11.0	49 13.0	49 51.5	49 51.5	49 42.0	49 44.5
49 25.8		49 56.3		49 42.0		49 19.8		49 44.0		49 12.0		49 51.5		49 43.3	
49 41.1				49 30.9				49 28.0				49 47.4			
49 36.0								49 37.7							

成果 Resulting Dip = 49° 36′.9

天候
WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	...	2	...	4	...	2	...	...	..	8.9	0.98
2	2	...	...	6	...	...	...	...	...	...	...	7.4	...
3	...	...	3	1	2	1	...	...	...	...	1	1.5	...
4	1	...	...	5	...	2	...	...	...	...	...	8.0	...
5	...	...	...	3	...	...	...	5	...	...	...	9.1	...
6	...	1	4	...	...	1	...	2	...	...	...	10.0	0.33
7	...	1	2	...	...	3	...	1	...	...	1	8.4	0.28
8	1	2	...	...	...	...	...	...	...	...	5	0.4	...
9	2	...	2	3	...	...	...	...	...	...	1	7.1	...
10	...	3	...	3	...	1	...	1	...	...	...	8.1	...
11	...	2	5	1	...	...	...	...	...	...	...	8.4	0.25
12	2	1	...	1	...	...	...	...	...	...	4	3.0	...
13	...	1	1	2	...	...	...	...	...	...	4	1.9	...
14	...	1	2	3	...	2	...	...	...	...	...	6.3	...
15	...	1	5	...	1	...	...	1	...	...	...	10.0	...
16	...	1	1	2	2	2	...	...	...	...	...	4.5	...
17	...	2	5	...	...	1	...	...	...	...	...	9.4	...
18	...	...	1	1	...	...	...	...	...	...	6	0.8	...
19	...	2	...	3	1	...	...	...	...	...	2	3.6	...
20	2	1	3	...	...	...	...	...	...	...	2	2.8	...
21	...	1	2	1	...	...	...	...	...	...	4	0.8	...
22	...	...	...	...	...	...	...	...	...	...	8	0.0	...
23	...	1	...	5	...	...	...	1	...	...	2	4.5	...
24	...	2	2	1	...	2	...	...	...	...	...	8.1	...
25	...	2	1	...	...	...	...	...	...	...	5	2.5	0.07
26	...	1	...	...	...	...	...	...	...	...	7	0.4	...
27	1	...	...	...	...	...	...	...	...	...	7	0.3	...
28	...	2	1	3	1	...	...	...	...	...	1	5.3	...
29	1	4	...	1	...	...	...	...	...	2	...	8.8	...
30	2	1	...	...	...	1	...	...	...	...	4	1.4	...
合計 Sums.	14	33	40	47	7	20	...	13	...	2	64	...	1.86
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	5.1	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N.E. 時數 Number of Hours.	東北 N.E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S.E. 時數 Number of Hours.	東南 S.E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S.W. 時數 Number of Hours.	西南 S.W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N.W. 時數 Number of Hours.	西北 N.W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最強 Strongest 方位 Directions.	最強 Strongest 速力 Miles.
1	...	9	47.0	...	...	..	...	1	3.2	6	73.3	4	49.0	...	...	4	18.1	24	190.6	S.	21.3
2	...	16	147.8	2	10.5	4	21.2	...	...	...	...	...	...	...	...	2	6.6	24	186.1	N.	13.8
3	1	5	47.9	3	20.8	1	3.7	8	20.5	...	...	...	...	...	...	6	54.9	24	147.8	N.	10.7
4	...	10	61.1	1	5.3	7	15.6	..	...	...	...	...	...	...	...	6	41.4	24	123.4	N.	9.7
5	...	12	79.6	...	...	...	...	...	...	...	...	...	...	...	...	12	81.8	24	161.4	N.W	9.8
6	...	11	70.3	...	...	...	...	3	4.4	...	...	...	...	...	...	10	64.1	24	138.8	N.W.	11.3
7	1	11	17.1	...	...	...	...	10	19.2	...	...	...	...	...	...	2	16.5	24	52.8	N.W.	9.6
8	...	6	60.2	...	...	...	...	...	...	...	...	...	...	...	...	18	226.9	24	287.1	N.W.	18.3
9	...	11	58.0	...	...	2	13.0	6	10.5	4	10.4	...	...	...	...	1	5.1	24	97.0	N.	8.4
10	...	9	51.3	...	...	...	...	...	...	8	114.6	...	...	1	2.3	6	41.8	24	210.0	S.	26.4
11	...	19	122.0	...	...	...	...	...	...	...	...	...	...	...	...	5	42.4	24	164.4	N.	11.4
12	...	9	70.5	...	..	...	...	9	20.8	...	...	...	...	...	...	6	54.2	24	145.5	N.W.	12.5
13	...	17	172.5	7	31.4	...	...	...	...	...	...	...	...	...	...	..	...	24	203.9	N.	14.7
14	...	11	105.5	6	34.7	3	21.8	...	...	...	...	...	...	...	...	4	34.3	24	196.3	N.	11.7
15	...	16	132.7	...	...	...	...	...	...	...	...	...	...	...	...	8	65.8	24	198.5	N.W.	10.0
16	...	6	36.7	2	6.9	...	...	1	4.5	9	37.6	...	...	...	...	6	22.7	24	108.4	N.W.	8.1
17	...	7	32.4	...	...	1	2.0	2	10.4	4	72.2	5	78.6	...	...	5	24.6	24	220.2	S.	26.3
18	...	5	71.2	2	14.8	1	5.8	...	...	3	76.5	3	35.8	4	19.5	6	56.0	24	279.6	S.	29.7
19	...	10	58.4	2	8.2	...	...	6	15.5	...	...	...	...	...	...	6	42.0	24	124.1	N.	9.0
20	...	9	85.2	3	18.8	1	4.7	6	18.5	...	...	..	...	...	...	5	27.0	24	154.2	N.	13.0
21	...	16	122.4	8	43.4	...	...	...	...	...	...	...	...	...	...	...	...	24	165.8	N.	12.3
22	...	7	42.4	5	22.3	5	10.6	2	13.3	...	...	...	...	...	...	5	43.9	24	132.5	N.W.	9.9
23	...	3	13.3	...	...	1	2.2	8	23.5	...	...	...	...	...	...	12	74.8	24	113.8	N.W.	9.6
24	...	6	34.2	2	5.7	...	...	...	...	8	82.5	2	16.2	1	4.4	5	19.1	24	162.1	S.	17.6
25	...	13	39.1	...	...	...	...	...	...	...	...	...	...	...	...	11	136.0	24	175.1	N.W.	15.5
26	...	4	16.4	...	...	1	3.2	3	12.8	6	44.0	1	4.8	4	17.8	5	31.4	24	130.4	N.	11.0
27	...	8	66.1	...	...	...	...	2	11.0	2	7.9	...	...	6	22.5	6	28.4	24	135.9	N.	9.9
28	...	18	138.6	5	29.7	...	...	...	...	...	...	...	...	...	...	1	10.6	24	178.9	N.W.	10.6
29	...	7	22.1	..	...	...	...	...	...	1	23.4	8	203.7	...	...	8	19.6	24	268.8	S.W.	33.2
30	...	11	147.4	...	...	...	...	...	...	..	...	...	...	...	...	13	186.0	24	333.4	N.W.	20.3
計合 Sums.	2	302	2169.4	48	252.5	27	103.8	67	188.1	51	542.4	23	388.1	16	66.5	184	1476.0	720	5186.8	..	...
極强 Max.	...	..	...	...	...	..	...	..	....	..	....	..	...	...	...	..	...	..	...	S.W.	33.2

明治二十年十一月

NOVEMBER, 1887.

濕氣百分數
HUMIDITY.
(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	97	100	100	95	94	83	86	99
2	67	77	60	51	49	75	74	80
3	81	81	78	51	50	77	90	92
4	95	93	75	52	66	77	91	85
5	88	95	81	82	93	93	99	99
6	99	98	92	82	86	99	99	97
7	99	99	94	78	80	96	94	80
8	71	81	62	47	49	59	64	70
9	76	78	65	56	61	79	87	88
10	96	93	86	78	86	84	72	65
11	72	73	80	70	68	80	85	82
12	70	69	62	55	47	77	84	75
13	68	69	57	46	41	63	76	88
14	83	79	76	62	67	79	85	91
15	87	87	81	72	74	81	80	82
16	81	89	70	60	63	86	90	90
17	92	89	84	76	86	82	67	60
18	55	68	49	44	42	61	70	75
19	74	82	63	57	48	78	81	82
20	95	74	56	57	54	82	80	73
21	66	81	63	51	48	69	74	84
22	84	82	69	61	60	78	92	93
23	94	93	77	65	62	88	91	89
24	92	88	81	69	68	85	97	95
25	97	98	83	73	57	58	61	63
26	78	78	69	49	60	82	88	92
27	89	91	67	52	60	53	76	69
28	76	75	64	62	71	83	94	95
29	98	98	100	81	80	61	67	62
30	64	62	50	43	42	51	69	57
平均 Means.	83	84	73	63	64	77	82	82

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.459	0.465	0.496	0.541	0.558	0.539	0.520	0.461
2	0.303	0.373	0.357	0.330	0.339	0.412	0.356	0.324
3	0.286	0.279	0.302	0.309	0.342	0.365	0.340	0.325
4	0.304	0.313	0.338	0.318	0.410	0.416	0.425	0.381
5	0.366	0.353	0.377	0.444	0.467	0.431	0.456	0.467
6	0.462	0.444	0.480	0.491	0.496	0.524	0.512	0.475
7	0.459	0.446	0.483	0.482	0.491	0.501	0.467	0.339
8	0.299	0.290	0.329	0.325	0.318	0.277	0.268	0.263
9	0.259	0.257	0.295	0.323	0.358	0.364	0.389	0.340
10	0.335	0.361	0.485	0.496	0.498	0.430	0.325	0.265
11	0.279	0.293	0.322	0.302	0.321	0.333	0.309	0.303
12	0.236	0.218	0.219	0.278	0.262	0.284	0.269	0.224
13	0.204	0.199	0.215	0.240	0.225	0.259	0.268	0.250
14	0.231	0.230	0.248	0.303	0.343	0.331	0.329	0.308
15	0.302	0.302	0.316	0.330	0.346	0.342	0.336	0.334
16	0.328	0.335	0.328	0.381	0.393	0.400	0.422	0.377
17	0.366	0.340	0.342	0.396	0.418	0.454	0.369	0.328
18	0.277	0.247	0.234	0.253	0.260	0.249	0.242	0.229
19	0.210	0.206	0.232	0.266	0.272	0.303	0.285	0.247
20	0.232	0.230	0.233	0.275	0.289	0.299	0.301	0.233
21	0.214	0.217	0.225	0.260	0.258	0.268	0.260	0.266
22	0.204	0.186	0.208	0.258	0.279	0.257	0.257	0.229
23	0.213	0.201	0.241	0.280	0.328	0.338	0.319	0.284
24	0.270	0.259	0.286	0.379	0.419	0.421	0.473	0.367
25	0.348	0.349	0.373	0.439	0.348	0.272	0.252	0.236
26	0.234	0.223	0.265	0.256	0.318	0.366	0.279	0.249
27	0.244	0.218	0.251	0.286	0.333	0.256	0.219	0.202
28	0.199	0.196	0.209	0.273	0.333	0.340	0.316	0.272
29	0.246	0.255	0.301	0.287	0.323	0.330	0.356	0.321
30	0.246	0.209	0.194	0.185	0.178	0.161	0.159	0.149
平均 Means.	0.287	0.283	0.306	0.333	0.351	0.351	0.336	0.302

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	56.6	57.0	58.8	61.2	62.1	61.1	60.1	56.7
2	45.3	50.9	49.7	47.6	48.3	53.6	49.6	47.1
3	43.8	43.2	45.2	45.9	48.5	50.3	48.4	47.2
4	45.4	46.2	48.2	46.6	53.5	53.9	54.5	51.5
5	50.4	49.4	51.2	55.7	57.1	54.9	56.4	57.1
6	56.8	55.7	57.9	58.5	58.8	60,3	59.7	57.6
7	56.6	55.8	58.1	58.0	58.5	59.1	57.1	48.3
8	45.0	44.2	47.5	47.2	46.6	43.0	42.1	41.6
9	41.2	41.0	44.6	47.0	49.8	50.2	52.1	48.4
10	48.0	50.0	58.2	58.8	58.9	54.8	47.2	41.8
11	43.2	44.4	46.9	45.2	46.8	47.8	45.9	45.3
12	38.8	36.7	36.9	43.1	41.5	43.6	42.2	37.4
13	35.1	34.5	36.4	39.3	37.5	41.2	42.1	40.3
14	38.2	38.1	40.1	45.3	48.6	47.7	47.5	45.8
15	45.2	45.2	46.4	47.6	48.9	48.5	48.1	47.9
16	47.4	48.0	47.4	51.5	52.3	52.8	54.3	51.2
17	50.4	48.4	48.5	52.5	54.0	56.3	50.6	47.4
18	43.0	40.0	38.6	40.6	41.3	40.2	39.5	38.0
19	35.8	35.3	38.4	41.9	42.5	45.3	43.7	40.0
20	38.4	38.1	38.5	42.8	44.1	45.0	45.1	38.5
21	36.2	36.6	37.6	41.3	41.1	42.1	41.3	41.9
22	35.0	32.8	35.5	41.1	43.2	41.0	41.0	38.0
23	36.1	34.7	39.4	43.3	47.4	48.2	46.7	43.6
24	42.3	41.2	43.8	51.4	54.1	54.2	57.5	50.5
25	49.0	49.1	50.9	55.4	49.0	42.5	40.5	38.8
26	38.6	37.3	41.8	40.9	46.6	50.4	43.2	40.2
27	39.7	36.7	40.4	43.8	47.8	40.9	36.9	34.8
28	34.4	34.0	35.7	42.6	47.8	48.4	46.4	42.5
29	39.9	40.8	45.1	43.9	47.0	47.6	49.6	46.8
30	39.9	35,7	33.8	32.6	31.6	29.2	28.9	27.3
平均 Means.	43.2	42.7	44.7	47.1	48.5	48.5	47.3	44.5

明治二十年十一月

NOVEMBER, 1887.

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	57.4	57.0	58.8	62.5	63.9	66.5	64.3	57.1
2	56.0	58.1	64.0	66.5	68.0	61.7	58.0	53.3
3	49.0	48.5	53.9	64.0	67.8	57.7	51.2	49.5
4	46.7	48.1	56.0	64.5	65.3	61.0	57.2	55.8
5	54.0	51.0	57.0	61.3	59.0	56.8	56.8	57.5
6	57.0	56.3	60.2	64.0	63.2	60.7	59.9	58.4
7	57.0	56.2	59.8	65.0	64.7	60.2	58.8	54.4
8	54.3	49.9	60.8	68.8	66.6	57.5	54.0	51.0
9	48.5	47.7	56.2	63.3	63.9	57.0	56.0	52.0
10	49.2	52.0	62.3	66.0	63.2	59.5	56.0	53.2
11	52.1	53.0	52.9	55.0	57.2	53.7	50.2	50.6
12	48.0	46.5	49.7	59.3	62.0	50.5	46.6	45.0
13	45.4	43.8	51.3	60.0	61.2	53.5	49.3	43.6
14	43.0	44.0	47.3	58.0	59.5	54.0	52.1	48.3
15	48.8	49.0	52.2	56.5	57.0	54.1	54.0	53.3
16	53.0	51.0	57.0	66.0	65.0	57.0	57.2	53.8
17	52.6	51.6	53.3	60.0	58.2	62.1	62.0	61.4
18	59.0	50.1	57.7	62.8	65.0	53.5	49.0	45.5
19	43.6	40.5	50.7	57.0	62.0	52.0	49.1	45.2
20	39.8	46.0	53.8	58.0	60.9	50.3	51.2	47.0
21	47.2	42.0	50.0	59.5	60.7	52.2	49.2	46.5
22	39.4	38.0	45.0	54.5	57.0	47.7	43.2	39.8
23	37.7	36.6	46.2	55.1	60.5	51.6	49.2	46.5
24	44.5	44.5	49.2	62.0	65.0	58.8	58.5	51.9
25	49.8	49.7	55.8	64.5	64.5	57.4	53.3	51.2
26	45.3	43.8	52.1	60.3	60.6	55.7	46.6	42.4
27	42.8	39.0	51.0	61.6	61.7	58.0	47.8	44.4
28	41.2	41.2	47.1	55.7	57.0	53.6	49.1	43.8
29	40.1	41.5	45.1	49.5	53.0	61.3	61.7	60.0
30	52.0	48.3	52.0	54.3	54.8	46.3	41.8	41.1
平均 Means.	48.5	47.5	53.6	60.5	61.6	56.1	53.1	50.1

日次 Date.	改正風雨鍼 BAROMETER. Reduced to 32° F. and sea level.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	30.142	30.073	29.995	29.993	29.816	29.803	29.816	29.840
2	29.857	29.935	30.037	30.014	30.002	30.066	30.103	30.117
3	30.125	30.150	30.207	30.165	30.130	30.103	30.185	30.210
4	30.206	30.265	30.320	30.267	30.228	30.250	30.261	30.250
5	30.255	30.243	30.256	30.217	30.160	30.149	30.111	30.055
6	29.975	29.940	29.946	29.879	29.858	29.831	29.835	29.814
7	29.793	29.816	29.837	29.836	29.807	29.832	29.873	29.885
8	29.901	29.936	29.994	29.996	29.998	30.069	30.116	30.135
9	30.155	30.183	30.254	30.185	30.152	30.155	30.148	30 075
10	29.994	29.963	29.934	29.836	29.831	29.864	29.893	29.931
11	29.949	29.990	30.034	30.006	29.985	30.011	30.045	30.044
12	30.041	30 072	30.112	30.095	30.057	30.068	30.087	30.102
13	30.102	30.117	30.177	30.160	30.126	30.169	30.206	30.208
14	30.219	30.243	30.279	30.272	30.230	30.261	30.275	30.268
15	30.251	30.264	30.261	30.211	30.159	30.146	30.130	30.068
16	30.052	30.022	30.051	29.993	29.956	29.961	29.973	29.963
17	29.924	29.944	29.924	29.841	29.783	29.702	29.670	29.607
18	29.589	29.678	29.779	29.797	29.845	29.974	30.054	30.103
19	30.110	30.137	30.182	30.125	30.061	30.064	30.085	30.072
20	30.065	30.092	30.159	30.135	30.114	30.146	30.154	30.170
21	30.184	30.221	30.251	30.247	30.248	30.295	30.373	30.386
22	30.380	30.379	30.426	30.373	30.333	30.353	30.376	30.360
23	30.345	30.325	30.346	30.270	30.214	30.212	30.205	30.165
24	30.131	30.110	30.092	30.010	29.948	29.929	29.851	29.794
25	29.737	29.723	29.703	29.677	29.664	29.774	29.892	29.968
26	30.011	30.064	30.119	30.064	29.984	29.960	29.974	29.958
27	29.969	30.005	30.067	30.048	30.065	30.123	30.162	30.181
28	30.175	30.178	30.233	30.196	30.153	30.168	30.163	30.127
29	30.074	30.045	30.020	29.937	29.814	29.766	29.675	29.639
30	29.677	29.705	29.798	29.805	29.795	29.854	29.920	29.926
平均 Means.	30.046	30.061	30.093	30.055	30.017	30.037	30.054	30.047

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32° F. & sea level.			寒暑鍼 Thermometer.			露點温度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat. =100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	平均 Mean.	高極 Max.	低極 Min.	平均 Mean.	高極 Max.	低極 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	29.935	30.142	29.803	60.9	67.0	56.6	59.2	0.505	94	77.0	66.5	46.5
2	30.016	30.117	29.857	60.7	68.7	53.0	49.0	0.349	67	120.0	86.0	44.7
3	30.167	30.210	30.125	55.2	68.1	47.0	46.6	0.319	75	125.0	86.5	36.0
4	30.256	30.325	30.206	56.8	66.6	45.7	50.0	0.363	79	123.7	86.1	37.0
5	30.181	30.256	30.055	56.7	62.3	50.2	54.0	0.420	91	113.0	78.0	40.8
6	29.885	29.975	29.814	60.0	65.3	55.8	58.2	0.486	94	98.5	75.6	50.0
7	29.835	29.885	29.793	59.5	66.7	54.4	56.4	0.459	90	117.0	**88.1**	44.3
8	30.018	30.135	29.901	57.9	**68.9**	49.0	44.7	0.296	63	126.5	86.5	39.7
9	30.163	30.254	30.075	55.6	66.3	45.9	46.8	0.323	74	**129.0**	85.5	34.0
10	29.906	29.994	29.831	57.7	67.7	48.5	52.2	0 399	83	115.6	80.5	41.5
11	30.008	30.045	29.949	53.1	57.8	49.0	45.7	0.308	76	108.0	75.3	40.5
12	30.079	30.112	30.041	51.0	63.0	44.6	40.0	0.249	67	111.8	81.0	33.9
13	30.158	30 208	30.102	51.0	62.2	42.3	38.3	0.233	64	121.5	79.8	32.8
14	30.256	30.279	30.219	50.8	60.0	41.5	43.9	0.290	78	124.7	80.6	33.7
15	30.186	30.264	30.068	53.1	58.0	47.4	47.2	0.326	81	91.5	69.8	39.5
16	29.996	30.052	29.956	57.5	66.2	50.0	50.6	0.371	79	122.9	85.3	42.0
17	29.799	29.944	29.607	57.7	64.2	50.0	51.0	0.377	80	93.0	74.3	42.0
18	29.852	30.103	**29.589**	55.3	66.0	45.0	40.2	0.249	58	124.8	84.4	34.0
19	30.105	30.182	30.061	50.0	64.5	39.5	40.4	0.253	71	128.2	87.5	28.3
20	30.129	30.170	30.065	50.9	62.3	38.0	41.3	0.262	71	123.3	81.0	26.4
21	30.276	30.386	30.184	50.9	61.2	40 5	39.8	0.246	67	121.0	79.0	28.0
22	30.373	**30.426**	30.333	45.6	58.7	36.7	38.5	0.235	77	116.6	76.6	27.0
23	30.260	30.346	30.165	47.9	61.1	**35.5**	42.4	0.276	82	122.3	82.1	27.0
24	29.983	30.131	29.794	54.3	67.8	43.0	49.4	0.359	84	117.2	85.9	33.5
25	29.767	29.968	29.664	55.8	67.3	48.2	46.9	0.327	74	125.5	87.7	38.5
26	30.017	30.119	29.958	50.9	61.5	40.9	42.4	0.274	75	122.6	81.5	28.0
27	30.078	30.181	29.969	50.8	64.0	36.2	40.1	0.251	70	121.8	81.0	**24.0**
28	30.174	30.233	30.127	48.6	58.3	40.0	41.5	0.267	77	125.7	82.4	30.2
29	29.871	30.074	29.639	51.5	62.7	38.9	45.1	0.302	81	92.2	69.1	28.7
30	29.810	29.926	29.677	48.8	60.2	40.4	32.4	0.185	54	115.7	71.5	30.3
平均 Means.	30.051	...	...	53.9	...	...	45.8	0.319	76	...	...	...
至極 Max. & Min.	...	30.426	29.589	...	68.9	35.5	...	...	...	129.0	88.1	24.0

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕雨球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニフアイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁竿中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁竿ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Beckley's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer. *

* The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection = 1. 3 feet.

The angular value of one scale division of the vibration magnet = 2′.37.

觀象臺長 海軍五等技師 中川將行 閱
觀測士 海軍六等技師 伊藤直温
觀測助手 海軍屬 嘉納謙作
同 海軍屬 日比翁助
同 海軍屬 白井正信
同 海軍八等技手 小澤兼藏
同 海軍十等技手 永江董

(Signed) Director.
M. Nakagawa.
Observer.
N. Itō.
Assistant.
„ K. Kanō.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	C., with D. at times in a. m.; R. in p.m.
2	R. in a.m.; *C.*, with *D.* at times in p.m.
3	C. in a.m.; R. in p.m.
4	C., with R. at times.
5	R.; *d.* after 10 p.m.
6	*d.* or B.C.; D.at 8 a.m. and 6 p.m.
7	*d.* in a.m.; R. in p.m.; S. w_2 till 3 p.m.
8	R.; T. at times 7.50—11 a.m.; *f.p.* after 3 p.m.
9	*f.p.*
10	*f.p.*
11	*f.p.*; F. in morning and evening.
12	*d.*, with B.C. at times.
13	*d.*, with B. at times.
14	B. or B.C.
15	*d.*
16	C.; R. after 2 p.m.
17	C., with D. at times; *r. b.* at 5 p.m.
18	B. or B.C.
19	*f.d.* in day; *f.p.* in night.
20	*d.* in a.m.; B. in p.m.
21	*d.*, with B. at times.
22	*d.*; *f.p.* after 7 p.m.
23	C., with D. at times; *f.p.* after 8 p.m.
24	*d.*, with D. at times in a.m.; B. in p.m.; C. after 10 p.m.
25	C. in a.m.; *f.d.* in p.m.; *l.h.* after 6 p.m.
26	*f.p.*; C. day after break.
27	*d.*; *f.p.* after 3 p.m.
28	*d.*; *f.p.* after 6 p.m.
29	C.; R. 7.20 a.m.—3.50 p.m.; *f.p.* afterwards.
30	*f.p.*; *d.* after 10 p.m.
31	*f.d.*; R. at times after 8 p.m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日　午前陰時々微雨午後續テ降雨
二日　午前降雨午後陰時々微雨
三日　午前陰午後降雨
四日　陰時々降雨
五日　午後十時頃マテ降雨後薄陰
六日　薄陰或ハ半晴午前八時過及ヒ午後六時過暫時微雨
七日　午前薄陰午後降雨午後三時頃マテ南風稍強
八日　降雨午前七時五十分頃ヨリ同十一時頃マテ屢〻雷鳴午後三時頃雨歇ミ爾後漸々快晴
九日　晝夜快晴
十日　快晴
十一日　快晴朝夕濃霧アリ
十二日　薄陰時々半晴
十三日　薄陰時々晴
十四日　晴或ハ半晴
十五日　薄陰
十六日　陰午後二時過ヨリ降雨
十七日　陰時々微雨午後五時頃虹ヲ現ス
十八日　晴或ハ半晴
十九日　晝間薄晴夜間快晴
二十日　午前薄陰午後晴
廿一日　薄陰時々晴
廿二日　薄陰午後七時後快晴
廿三日　陰時々細雨午後八時後漸々快晴
廿四日　午前薄陰時々微雨午後漸々晴同十時頃ヨリ復陰
廿五日　午前陰午後薄晴同六時過月暈ヲ帶フ
廿六日　拂曉前快晴爾後陰
廿七日　薄陰午後二時後漸々快晴
廿八日　薄陰午後六時過快晴
廿九日　陰午前七時二十分頃ヨリ午後三時五十分頃マテ降雨爾後快晴
三十日　快晴午後十時過ヨリ薄陰
卅一日　薄晴午後八時頃ヨリ時々降雨

地平磁氣力
HORIZONTAL INTENSITY.

Commenced $10^{d}\ 4^{h}\ 15^{m}$ P. M.
Ended „ 5 10 P. M.

十日午後四時十五分ヨリ同五時十分ニ至ル

偏針角 Deflections.

磁針 Mag.	北端 North end.	No.	視閲度 Circle — Readings. A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean ′ ″
東 East.	E.	1	175 46 0	45 20	45 40				
	W.					2	169 20 40	20 0	20 20
	E.	3	175 46 20	45 40	46 0				
	W.					4	1C9 21 0	20 40	20 50
	E.	5	175 46 30	45 40	46 5				
平均	Means	175° 45′ 55″.0				.... 1(9° 20′ 35″.0			
西 West.	W.					6	169 20 0	19 20	19 40
	E.	7	175 42 10	41 20	41 45				
	W.					8	169 20 0	19 20	19 40
	E.	9	175 42 20	41 30	41 55				
	W.					10	169 20 0	19 20	19 40
平均	Means.	175° 41′ 50″.0				.... 169° 19′ 40″.0			

平均温度 Mean Temperature $t = 74^{\circ}.9$ Fah.
偏針角 Angle of Deflection $u = 3^{\circ}\ 11'\ 52''.5$

搖振時 Oscillations.

振数 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	55	45.0	73.5	9.7	50.2		
10		56	29.9					
20		57	15.1					
31		58	5.1					
41		58	50.1					
51		59	35.0					
100	5	3	17.2				7	32.2
110		4	2.2					32.3
120		4	47.8					32.7
131		5	37.8					32.7
141		6	22.7					32.7
151		7	7.4	74.8	19.4	39.9		32.4
平均 Means.				74.2	....		7	32.50

捩物差 Mean effect of 90° of Torsion $v = 2.35$
時儀日差 Daily rate $s = 0^{s}.64$ gaining.

成果 Resulting absolute value X = 6.3271

Commenced $21^{d}\ 3^{h}\ 45^{m}$ P. M.
Ended „ 4 46 P. M.

二十一日午後三時四十五分ヨリ同四時四十六分ニ至ル

偏針角 Deflections.

磁針 Mag.	北端 North end.	No.	視閲度 Circle — Readings. A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	62 53 0	52 30	52 45				
	W.					2	56 31 40	31 10	31 25
	E.	3	62 53 40	53 0	53 20				
	W.					4	56 32 10	31 30	31 50
	E.	5	62 53 20	52 40	53 0				
平均	Means.	62° 53′ 1″.7				.... 56° 31′ 37″.5			
西 West.	W.					6	56 28 40	28 0	28 20
	E.	7	62 48 20	47 40	48 0				
	W.					8	56 28 40	28 0	28 20
	E.	9	62 48 20	47 40	48 0				
	W.					10	56 28 50	28 0	28 2[illegible]
平均	Means.	62° 48′ 0″.0				.... 56° 28′ 21″.7			

平均温度 Mean Temperature $t = 74.^{\circ}5$ Fah.
偏針角 Angle of Deflection $u = 3^{\circ}\ 10'\ 16.''6$

搖振時 Oscillations.

振数 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	33	58.7	72.7	0.3	59.5		
10		34	44.0					
20		35	29.5					
31		36	19.3					
41		37	4.8					
51		37	50.2					
100		41	32.5				7	33.8
110		42	18.0					34.0
120		43	3.3					33.8
131		43	53.2					33.9
141		44	38.5					33.7
151		45	24.1	72.0	13.6	46.0		33.9
平均 Means.				72.4	....		7	33.85

捩物差 Mean effect of 90° of Torsion $v = 1.85$
時儀日差 Daily rate $s = 2^{s}.50$ gaining.

成果 Resulting absolute value X = 6.3348

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 9.4	5	4 8.1	9	4 5.4	13	4 11.2	17	4 12.7	21	4 8.5	25	4 7.1	29	4 9.6
2	4 6.9	6	4 7.2	10	4 5.8	14	4 13.1	18	4 12.6	22	4 10.3	26	4 7.2	30	4 10.2
3	4 8.6	7	4 10.2	11	4 7.3	15	4 13.1	19	4 7.2	23	4 11.8	27	4 9.1	31	4. 9.0
4	4 8.2	8	4 8.4	12	......	16	4 11.8	20	4 9.3	24	4 10.6	28	4 9.3		

平均 Mean = 4° 9.′31

磁氣傾差
Magnetic Inclination.

Commenced 10^d 5^h 30^m P. M.
Ended „ „ 50 P. M.

十日午後五時三十分ヨリ同時五十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 43	49 43	49 46	49 45	49 36	49 35	49 35	49 32	49 44	49 45	49 26	49 29	49 48	49 49	49 35	49 37
49 38	49 38	49 44	49 43	49 42	49 40	49 40	49 39	49 57	49 58	49 22	49 24	49 45	49 46	49 33	49 35
49 40.5	49 40.5	49 45.0	49 44.0	49 39.0	49 37.5	49 37.5	49 35.5	49 50.5	49 51.5	49 24.0	49 26.5	49 46.5	49 47.5	49 34.0	49 36.0
49 40.5		49 44 5		49 38.3		49 36.5		49 51.0		49 25.3		49 47.0		49 35.0	
49 42.5				49 37.4				49 38.2				49 41.0			
49 40.0								49 39.6							

成果 Resulting Dip = 49° 39.′8

Commenced 21^d 5^h 5^m P. M.
Ended „ „ 25 P. M.

二十一日午後五時五分ヨリ同時二十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 46	49 45	49 58	49 58	49 46	49 44	49 18	49 15	49 46	49 47	49 12	49 15	49 48	49 50	49 45	49 47
49 45	49 45	49 54	49 53	49 43	49 42	49 11	49 10	49 43	49 48	49 15	49 17	49 49	49 50	49 29	49 31
49 45.5	49 45.0	49 56.0	49 55.5	49 44 5	49 43.0	49 14.5	49 12.5	49 44.5	49 47.5	49 13.5	49 16.0	49 48.5	49 50 0	49 37.0	49 38.0
49 45.3		49 55.7		49 43.8		49 43.5		49 46.0		49 11.8		49 49.3		49 38.0	
49 50.5				49 43.7				49 30.4				49 43.7			
49 47.1								49 37.1							

成果 Resulting Dip = 49° 42.′1

天候

WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	3	...	...	...	...	5	...	...	...	10.0	0.07
2	...	...	2	...	...	...	...	6	...	...	...	10.0	0.84
3	...	...	4	...	...	...	...	4	...	...	...	10.0	0.12
4	...	1	2	...	...	1	...	4	...	...	...	10.0	0.63
5	...	...	1	1	...	...	...	6	...	...	...	10.0	3.06
6	...	1	...	7	...	...	...	...	...	...	...	5.9	0.91
7	...	2	...	1	1	...	...	4	...	...	...	9.6	0.01
8	...	...	...	...	...	...	...	5	...	...	3	6.3	3.09
9	...	...	1	1	1	1	...	...	...	...	4	0.5	1.75
10	...	...	...	1	1	1	...	...	...	...	5	1.9	...
11	...	...	...	1	1	...	...	...	...	...	6	0.6	...
12	...	...	1	2	3	...	1	...	...	...	1	5.9	...
13	...	...	...	7	...	1	...	...	...	...	...	6.8	...
14	1	...	...	3	...	...	...	...	...	...	4	2.4	...
15	2	...	...	3	...	3	...	...	...	...	...	8.5	...
16	...	...	1	1	...	2	...	4	...	...	...	7.9	...
17	...	4	...	1	...	1	...	2	...	...	...	8.0	0.38
18	...	...	2	2	1	1	...	...	...	...	2	2.8	...
19	...	3	3	...	1	...	...	...	...	...	1	3.0	...
20	...	2	2	4	...	...	...	...	...	...	...	5.8	...
21	...	2	1	1	1	3	...	...	...	...	...	6.9	...
22	...	1	1	3	1	2	...	...	...	...	...	7 8	...
23	...	...	1	3	...	...	...	3	...	1	...	8.4	...
24	...	1	2	3	1	1	...	...	...	...	...	8.0	0.07
25	2	1	1	1	...	2	1	...	...	...	...	8.8	...
26	1	1	...	3	...	2	...	1	...	...	...	8.8	...
27	...	1	...	1	...	3	...	...	...	...	3	6.0	...
28	2	1	...	2	...	2	...	...	...	...	1	5.3	...
29	...	...	2	...	...	1	...	3	...	...	2	5.0	...
30	...	2	...	2	...	...	...	...	...	...	4	2.3	...
31	1	3	...	...	1	1	1	1	...		...	7.0	...
合計 Sums.	9	26	30	54	13	28	3	48	...	1	36	...	10.93
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	6.5	...

風 WIND.

日次 Date.	平穏時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest 方位 Directions.	最强 Strongest 速力 Miles.
1	...	11	100.9	8	49.3	..	...	...	...	...	...	...	...	...	...	5	46.2	24	196.4	N.	12.3
2	...	10	91.8	3	33.1	...	..	...	...	...	...	...	...	...	...	11	131.3	24	256.2	N.W	14.3
3	...	14	148.5	...	...	...	...	...	...	...	...	...	...	...	...	10	102.5	24	251.0	N.W	13.0
4	...	22	312.7	...	...	...	...	..	...	...	..	...	...	...	...	2	20.1	24	332.8	N.	19 3
5	...	11	194.1	...	...	...	...	...	...	...	...	...	...	1	7.3	12	196.9	24	398.3	N.W	20.5
6	...	...	...	1	2.0	...	...	11	44.3	1	8.2	3	10.9	8	28.1	...	...	24	93.5	S. E.	10.0
7	...	4	18.7	...	...	3	25.2	...	...	15	329.8	...	...	...	...	2	28.3	24	402.0	S.	27.7
8	...	12	154.9	2	12.5	...	...	...	...	...	...	1	6.7	5	23.9	4	55.3	24	253.3	N.	**34.1**
9	...	3	15.6	...	...	1	3 3	8	44.4	2	6.6	1	3.0	7	30.8	2	7.2	24	110.9	S. E	7.8
10	1	1	2.6	...	...	1	2.4	3	13.0	1	5.5	6	25.3	..	...	11	32.9	24	81.7	S.W.	9.5
11	1	3	12 6	1	3.8	...	...	10	25.7	...	...	...	...	1	4.1	8	30.2	24	76 4	N W.	6.5
12	...	5	25.1	7	34.9	4	12.4	...	...	...	...	...	...	...	...	8	48.0	24	120 4	N.	8.0
13	...	15	107.4	9	93.5	...	...	...	...	...	...	...	...	...	...	..	...	24	200.9	N. E.	13.7
14	...	11	78.4	1	4.2	6	19.2	5	19.3	1	6.8	...	...	...	...	...	...	24	127.9	N.	9.2
15	...	7	47.0	13	100.9	...	...	...	...	...	...	...	...	...	...	4	32.5	24	180.4	N.	10.1
16	...	14	159 2	...	...	...	...	...	...	...	...	..	...	...	...	10	122.7	24	281.9	N.W.	14.5
17	...	16	156.9	...	...	...	...	...	...	...	...	...	...	...	...	8	106.8	24	263.7	N.	16.6
18	...	11	74.4	8	52.3	3	21.1	...	...	...	...	...	...	...	...	2	10.6	24	158.4	N. E.	11.6
19	1	5	29.7	...	...	7	14.7	...	...	2	8.1	1	2.9	1	1 6	7	49.2	24	106.2	N.W.	9.0
20	...	4	21.3	...	...	...	...	13	49.8	...	...	...	...	...	...	7	17.9	24	89.0	N.	6.7
21	...	10	68.3	12	117.3	...	...	2	9.6	...	..	...	...	...	...	..	...	24	195.2	N. E.	12.4
22	...	13	82.6	2	5.3	8	26.9	1	3.4	...	...	...	...	...	..	...	...	24	118.2	N.	8.7
23	...	5	8.1	...	...	1	1.3	2	6.5	14	157.3	2	4.7	...	...	..	...	24	177.9	S.	16.4
24	...	6	47 5	...	...	...	...	...	...	12	126.7	1	7.8	1	4.8	4	14.9	24	201.7	S.	18.0
25	...	14	73.7	8	72.4	2	11.3	...	...	...	...	...	...	...	...	...	...	24	157.4	N. E.	11.4
26	...	20	199.1	1	11.3	...	...	...	...	...	...	...	...	...	...	3	27.9	24	238.3	N.	12.8
27	...	15	168.9	4	54.6	...	...	...	...	...	...	...	...	...	...	5	68.3	24	291 8	N. E.	18.3
28	...	14	82.2	5	27.4	4	25.4	...	...	...	...	...	...	...	...	1	7.5	24	142.5	N.	9.2
29	...	8	44.3	..	...	...	...	...	...	...	...	...	...	...	...	16	111.7	24	156.0	N.W.	8.6
30	...	12	117.2	2	20.0	5	19.6	...	...	..	...	...	...	...	...	5	26.8	24	183.6	N.	14.8
31		3	20.2	6	28.0	3	20.4	4	28.6		...	...	...	...	...	8	54.6	24	151.8	N.W.	8.7
計合 Sums.	3	299	2663.9	93	722.8	48	203.2	59	244.6	48	649.0	15	61.3	24	100.6	155	1350.3	744	5995.7	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	N.	34.1

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	74	73	73	68	92	95	97	95
2	95	95	94	92	94	91	91	93
3	84	88	83	82	96	97	98	97
4	99	94	93	81	84	95	89	99
5	99	99	100	100	95	97	88	90
6	95	98	89	77	78	89	94	93
7	98	89	87	83	86	98	98	95
8	99	99	99	100	86	75	71	95
9	94	85	72	49	55	84	93	97
10	93	96	73	69	56	82	94	97
11	99	100	77	59	48	83	95	95
12	97	95	73	68	63	84	92	97
13	95	95	77	69	69	81	78	77
14	83	83	65	54	56	71	61	95
15	99	97	82	68	60	74	79	85
16	80	86	80	78	82	97	98	98
17	98	95	86	86	86	88	90	93
18	96	99	77	70	64	86	98	99
19	98	99	81	67	62	82	87	97
20	97	96	84	69	67	88	95	90
21	90	90	80	69	64	82	93	93
22	89	92	76	66	64	80	92	97
23	96	97	87	84	95	99	94	100
24	96	95	89	79	84	93	92	82
25	90	93	78	61	69	80	90	88
26	89	90	76	73	80	83	83	75
27	72	68	61	53	51	69	66	74
28	79	80	63	59	56	72	84	89
29	92	93	89	93	97	97	97	99
30	95	88	68	50	53	76	89	84
31	87	91	71	62	64	84	92	99
平均 Means.	92	91	80	72	73	86	89	92

日次 Date.	水氣張力 ELASTIC FORCE OF VAPOUR.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.388	0.361	0.369	0.362	0.413	0.404	0.388	0.381
2	0.382	0.393	0.424	0.493	0.520	0.482	0.472	0.477
3	0.437	0.436	0.428	0.439	0.491	0.485	0.477	0.480
4	0.479	0.456	0.473	0.483	0.533	0.528	0.512	0.518
5	0.507	0.518	0.566	0.756	0.718	0.699	0.650	0.644
6	0.626	0.639	0.697	0.751	0.751	0.716	0.716	0.731
7	0.796	0.801	0.851	0.829	0.837	0.666	0.666	0.607
8	0.598	0.588	0.572	0.449	0.443	0.399	0.331	0.358
9	0.324	0.297	0.418	0.385	0.457	0.583	0.562	0.469
10	0.415	0.379	0.453	0.539	0.505	0.533	0 467	0.470
11	0.430	0.396	0.461	0.514	0.441	0.552	0.512	0.469
12	0.469	0.446	0.501	0.570	0 584	0.611	0.607	0.578
13	0.564	0.562	0.554	0.554	0.526	0.505	0.447	0.381
14	0.366	0.333	0.386	0.425	0.439	0.459	0.465	0.422
15	0.415	0.388	0.459	0.467	0.418	0.425	0.422	0.409
16	0.386	0.403	0.441	0.479	0.477	0.501	0.485	0.472
17	0.459	0.465	0.489	0.543	0.566	0.545	0.526	0.492
18	0.477	0.459	0.492	0.501	0.528	0.535	0.512	0.480
19	0·480	0.462	0.516	0.541	0.520	0.545	0.560	0.528
20	0.496	0.477	0.514	0.530	0.592	0.624	0.601	0.566
21	0.554	0.492	0.512	0.541	0.537	0.543	0.552	0.520
22	0.492	0.498	0.485	0.511	0.541	0.566	0.566	0.539
23	0.570	0.588	0.626	0.680	0.769	0.761	0.766	0.736
24	0.655	0.659	0.650	0.728	0.701	0.684	0.576	0.501
25	0.507	0.500	0.482	0.464	0.470	0.462	0.439	0.410
26	0.418	0.419	0.416	0.465	0.487	0.475	0.459	0.369
27	0.346	0.304	0.303	0.304	0.321	0.321	0.270	0.265
28	0 264	0.278	0.301	0.321	0.346	0 345	0.340	0.309
29	0.313	0.312	0.355	0.388	0.396	0.367	0.340	0.297
30	0.283	0.270	0.336	0.319	0.351	0.379	0.361	0.355
31	0.335	0.343	0.369	0.410	0.444	0.456	0.464	0.479
平均 Means.	0.459	0.448	0.481	0.510	0.520	0.520	0.500	0.475

日次 Date.	露點温度 DEW POINT. 午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	52.0	50.0	50.6	50.1	53.7	53.1	52.0	51.5
2	51.6	52.3	54.4	58.9	60.1	58.0	57.4	57.8
3	55.3	55.2	54.7	55.4	58.5	58.2	57.7	57.9
4	57.8	56.3	57.5	58.1	60.8	60.5	59.7	60.0
5	59.4	60.0	62.5	70.9	69.4	68.6	66.5	66.2
6	65.4	66.0	68.5	70.7	70.7	69.3	69.3	69.9
7	72.4	72.6	74.4	73.6	73.9	67.2	6.72	64.5
8	64.1	63.6	62.8	56.0	55.6	52.7	47.7	49.8
9	47.1	44.8	54.0	51.8	56.5	60.8	62.3	57.2
10	53.8	51.4	56.2	61.1	59.3	60.8	57.1	57.3
11	54.8	52.5	56.7	59.8	55.5	61.8	59.7	57.2
12	57.2	55.8	59.1	62.7	63.4	64.7	64.5	63.1
13	62.4	62.3	61.9	61.9	60.4	59.3	55.9	51.5
14	50.4	47.8	51.9	54.5	55.4	56.6	57.0	54.3
15	53.8	52.0	56.6	57.1	54.0	54.5	54.3	53.4
16	51.9	53.0	55.5	57.8	57.7	59.1	58.2	57.4
17	56.6	57.0	58.4	61.3	62.5	61.4	60.4	58.6
18	57.7	56.6	58.6	59.1	60.5	60.9	59.7	57.9
19	57.9	56.8	59.9	61.2	60.1	61.4	62.2	60.5
20	58.8	57.7	59.8	63.7	63.8	65.3	64.2	62.5
21	61.9	58.6	59.7	61.2	61.0	61.3	61.8	60.1
22	58.6	58.9	58.2	59.6	61.2	62.5	62.5	61.1
23	62.7	63.6	65.4	67.8	71.4	71.1	71.3	70.1
24	66.7	66.9	66.5	69.8	68.7	68.0	63.0	59.1
25	59.4	59.0	58.0	56.9	57.3	56.8	55.4	53.5
26	54.0	54.1	53.9	57.0	58.3	57.6	56.6	50.6
27	48.9	45.4	45.3	45.4	46.8	46.8	42.3	41.8
28	41.7	43.1	45.1	46.8	48.9	48.8	48.4	45.9
29	46.2	46.1	49.5	52.0	52.5	50 5	48.4	44.8
30	43.5	42.3	48.1	46.7	49.2	51.4	50.0	49.5
31	48.0	48.6	50.6	53.5	55.7	56.4	56.9	57.8
平均 Means.	55.9	55.2	57.2	58.8	59.4	59.5	58.4	56.9

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	60.3	58.9	59·3	60.9	56.3	54.5	52.8	52.9
2	53.0	53.7	56.1	61.2	61.8	60.6	60.2	59.9
3	60.0	59.0	60.0	61.0	59.6	59.0	58.3	58 7
4	58.0	58.0	59.4	64.0	65.8	62.0	63.0	60.2
5	59.8	60.2	62.5	70.9	70.8	69.5	70.7	69,5
6	66.8	66.7	72.0	78.7	78.0	72.8	71.1	72.0
7	73.1	75 8	79.0	79.0	76.6	67.9	67.9	65.9
8	64.5	64 0	63.2	56.0	59.8	60.8	56.9	51.2
9	48.8	49.0	63.2	72.1	73.5	65.8	64.5	58.0
10	56.0	52.6	65.3	72.0	76.5	66.7	58.8	58.1
11	55.0	52.5	64.0	75.3	76.9	67.2	61.7	58.5
12	58.2	57.3	67.9	74.0	77.0	70.0	67.0	64.0
13	63.9	63.8	69.4	72.7	71.0	65.2	62.7	58.9
14	55.3	52.8	64.0	72.0	72.0	66.7	61.4	55.7
15	54.2	53.0	62.2	68.3	68.1	63.0	61.0	58.0
16	58.0	57.2	61.7	64.8	63.2	60.0	58.8	58.0
17	57.4	58.5	62.7	66.2	67.0	65.0	63.5	60.5
18	58.8	57.0	66.1	69.4	73.5	65.2	60.3	58.1
19	58.5	57.0	66.0	73.0	73.9	67.0	66.2	61.2
20	59.7	58.8	64.9	74.5	75.8	68.9	65.8	65.6
21	65.0	61.6	66,0	72.2	74.0	67.2	64 0	62.0
22	62.0	61.2	65,8	71.4	74.3	69.0	65.0	61.8
23	63.8	64.5	69.6	73.0	73.0	71.5	73.0	70.3
24	68.0	68.3	70.0	76.6	73.9	70 2	65.3	64,6
25	62.4	61.1	65.0	71.0	68.0	63.0	58.4	57.1
26	57.4	57.0	61.4	66.2	64.7	62.8	61.8	58.8
27	58.0	55.9	58.5	62.7	65.0	56.8	53.3	50.0
28	48.0	48.8	57.5	61.2	65.1	57.9	53.2	49.0
29	48.5	48.2	52.5	54.0	53.5	51.5	49.2	45,2
30	45.0	45.5	58.6	65.7	66.8	59.0	53.0	54.3
31	52.0	51.0	60.0	67.0	68.6	61.2	59.2	58.0
平均 Means.	58.4	57.7	63.7	68.6	69.2	64.1	61.5	59.2

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	30.078	30.127	30.202	30.213	30.170	30.170	30.243	30.173
2	30.176	30.181	30.199	30.190	30.185	30.190	30.226	30.197
3	30.193	30.213	30.230	30.210	30.187	30.192	30.177	30.180
4	30.172	30.167	30.178	30.154	30.125	30.143	30.132	30.087
5	30.000	29.931	29.825	29.782	29.794	29.814	29.862	29.848
6	29.820	29.827	29.845	29.809	29.766	29.778	29.793	29.775
7	29.729	29.699	29.695	29.636	29.630	29.691	29.793	29.743
8	29.683	29.666	29.575	29.511	29.576	29.768	29.863	29.890
9	29.913	29.967	30.054	30.019	29.972	29.972	29.961	29.922
10	29.884	29.879	29.886	29.840	29.803	29.807	29.894	29.882
11	29.898	29.949	30.029	30.008	30.007	30.026	30.085	30.095
12	30.112	30.143	30.182	30.165	30.158	30.187	30.208	30.210
13	30.191	30.211	30.251	30.233	30.206	30.235	30.283	30.282
14	30.271	30.289	30.302	30.252	30.207	30.218	30.247	30.252
15	30.246	30.263	30.305	30.263	30.237	30.253	30.253	30.247
16	30.219	30.202	30.214	30.175	30.136	30.127	30.122	30.078
17	30.055	30.046	30.074	30.051	30.023	30.042	30.067	30.049
18	30.051	30.087	30.160	30.149	30.147	30.196	30.228	30.241
19	30.266	30.277	30.292	30.265	30.245	30.254	30.267	30.265
20	30.259	30.263	30.287	30.257	30.237	30.263	30.298	30.312
21	30.300	30.307	30.343	30.288	30.239	30.242	30.241	30.201
22	30.168	30.139	30.125	30.041	29.978	29.980	29.961	29.913
23	29.864	29.832	29.833	29.786	29.764	29.789	29.792	29.780
24	29.753	29.795	29.829	29.791	29.782	29.840	29.892	29.913
25	29.901	29.933	29.961	29.920	29.898	29.905	29.937	29.914
26	29.887	29.888	29.926	29.883	29.855	29.840	29.915	29.866
27	29.892	29.899	29.898	29.875	29.859	29.919	29.975	29.992
28	30.048	30.100	30.179	30.165	30.142	30.185	30.207	30.214
29	30.163	30.156	30.199	30.162	30.136	30.145	30.147	30.151
30	30.152	30.186	30.249	30.239	30.237	30.282	30.331	30.354
31	30.339	30.359	30.397	30.345	30.297	30.292	30.286	30.228
平均 Means.	30.054	30.064	30.088	30.054	30.032	30.056	30.087	30.073

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32° F. & sea level.			寒暑鍼 Thermometer.			露點温度	水氣張力	濕氣百分數	無氣中日温度	日温度	地温度
	平均 Mean.	高極 Max.	低極 Min.	平均 Mean.	高極 Max.	低極 Min.	平均 Mean Temp. of Dew point.	平均 Mean elastic force of Vapour.	平均 Mean Humidity (Sat. =100).	高極 Vacuum solar radiation Max.	高極 Solar radiation Max.	低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	30.172	30.243	30.078	57.0	65.9	51.4	51.6	0.383	83	80.8	67.0	47.5
2	30.193	30.226	30.176	58.3	61.8	52.1	56.3	0.456	93	97.5	70.0	48.0
3	30.198	30.230	30.177	59.5	61.0	58.0	56.6	0.459	91	70.0	62.0	53.0
4	30.145	30.178	30.087	61.3	66.1	56.8	58.8	0.498	92	88.8	72.2	51.7
5	29.857	30.000	29.782	66.7	71.4	58.8	6.54	0.632	96	92.5	77.8	51.6
6	29.802	29.845	29.766	72.3	80.0	65.6	68.7	0.703	89	142.0	**110.0**	57.5
7	29.702	29.793	29.630	73.2	**81.3**	65.0	70.7	0.757	92	130.0	98.5	60.1
8	29.692	29.890	**29.368**	59.6	69.1	50.5	56.5	0.467	91	87.0	77.1	37.6
9	29.973	30.054	29.913	61.9	75.8	47.4	54.3	0.431	79	138.9	101.0	37.8
10	29.859	29.893	29.803	63.3	76.5	51.8	57.1	0.470	83	136.0	98.7	42.3
11	3.0012	30.095	29.898	63.9	77.0	52.0	57.3	0.472	82	137.5	99.5	40.8
12	3.0171	30.210	30.112	66.9	78.7	56.5	61.3	0.546	84	138.6	99.3	49.0
13	3.0237	30 283	30.191	66.0	73.1	57.7	59.5	0.512	80	128.8	94.2	54.0
14	3.0255	30.302	30.207	62.5	73.9	52.1	53.5	0.412	71	134.4	96.5	43.7
15	3.0258	30.305	30.237	61.0	69.9	52.9	54.5	0.425	81	115.4	87.0	44.5
16	30.159	30.219	30.078	60.2	65.0	56.6	56.3	0.456	87	83.9	70.0	50.0
17	30.051	30.074	30.023	62.6	68.8	56.7	59.5	0.511	90	103.8	79.0	50.5
18	30.157	30.241	30.051	63.6	73.9	56.2	58.9	0.498	86	138.0	102.0	46.9
19	30.266	30 292	30.245	65.4	76.4	55.8	60.0	0.519	84	**149.4**	108.9	48.6
20	30.272	30.312	30.237	66.8	76.1	57.3	62.0	0.558	86	139.5	100.5	49.0
21	30.270	30.343	30.201	66.5	75.1	60 9	60.7	0.531	83	140.3	99.9	51.0
22	30.038	30.168	29.913	66.3	76.3	60.3	60.3	0.525	82	125.4	103.5	51.0
23	29.805	29.864	29.764	69.8	74.5	61.3	67.9	0.682	94	133.6	100.0	58.5
24	29.824	29.913	29.753	69.6	76.6	64.0	66.1	0.644	89	115.5	94.0	58.0
25	29.921	29.961	29.898	63.3	71.0	56.5	57.0	0.467	81	123.3	90.8	47.3
26	29.883	29 926	29.840	61.3	66.7	56.0	55.5	0.439	81	105.6	80.8	48.1
27	29.914	29.992	29.859	57.5	66.0	49 1	45 3	0.304	64	119.0	85.0	38.0
28	30.155	30.214	30.048	55.1	65.1	46.1	46 1	0.313	73	123.8	90.4	36.1
29	30.157	30.199	30.136	50.3	54.4	**44.0**	48.8	0 346	95	75.0	58.2	**33 5**
30	30.254	30.354	30.152	56.0	67.3	**44.0**	47.6	0.332	75	128.0	88.3	35.0
31	30.318	**30.397**	30.228	59.6	71.5	50.0	53.4	0.413	81	136.8	96.1	41.5
平均 Means.	30.064	...	...	62.8	...	...	57.7	0.489	84	...	...	...
至極 Max. &	...	30.397	29.368	...	813.	41.0	...	...	...	149.4	110.0	33.5

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁竿中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁竿ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Beckley's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer. *

* The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection = 1. 3 feet.

The angular value of one scale division of the vibration magnet = 2′.37.

觀象臺長 海軍五等技師 中川將行 閲
觀測士 海軍六等技師 伊藤直温
觀測助手 海軍屬 嘉納謙作
同 海軍屬 日比翁助
同 海軍屬 白井正信
同 海軍八等技手 小澤兼藏
同 海軍十等技手 永江董

(Signed) Director.
M. Nakagawa.
Observer.
N. Itō.
Assistant.
„ K. Kanō.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	B.; *f.p.* in night.
2	B., with B.C. at times; E. at 5.55 p.m.
3	*d.*, B. at noon; D.; at times after 4 p.m.
4	C., with R. at times.
5	*d.* in a.m.; B.C. in p.m.; E. at 3.22 p.m.
6	*d.*; *f.p.* after 8 p.m.; E. at 8.14 a.m.
7	*d.*, with B. at times.
8	B.C, with *d.* at times; D. 6—9 a.m.
9	C., with R. at times; E. at 8.55 p.m.
10	D.; C. after 3 a.m. B.C. after 2 p.m.
11	*d.*; *f.p.* after 7 p.m.; E. at 7.40 p.m.
12	*d.*; F. in morning; D. at times after 5 p.m.
13	C., with R. at times; E. at 8.16 p.m.
14	C., with R. at times; *f.p.* after 3 p.m.; S. w_2 till 3 p.m.
15	B. in a.m.; F. in morning; *d.* in p.m.; *f.p.* in night; E. at 4.41 p.m.
16	B., with B.C. at times.
17	B., with B.C. at times.
18	C.; R. after 10.40 a.m.
19	R.; C. after 5 p.m.
20	C.; R. after 1.30 p.m.
21	R.; C. after 5 a.m.; D. at times after 3 p.m.
22	C., with R. at times in a.m.; B.C. in p.m.
23	C.
24	C.
25	R.; B. after 6 a.m.; *d.* after 6 p.m.; E. at 8.57 a.m.
26	*f.d.* in a.m.; C. in p.m.; D. at 7 p.m.
27	C.; *f.p.* at 6 p.m.
28	B. or B.C. in day; *d.* in nihgt.
29	C.; D. at 8 a.m.; R. after 1 p.m.
30	*d.*, with R. at times.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濛霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
颪 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日　晴夜ニ入リ快晴
二日　晴時々半晴　午後五時五十五分頃地震ス
三日　薄陰正午過暫時晴午後四時頃ヨリ時々微雨
四日　陰時々降雨
五日　午前薄陰午後半晴　午後三時二十二分頃地震ス
六日　薄陰午後八時頃ヨリ快晴　午前八時十四分頃地震ス
七日　薄陰時々晴
八日　半晴時々薄陰午前六時頃ヨリ同九時頃マテ細雨
九日　陰時々降雨　午後八時五十五分頃地震ス
十日　午前三時頃マテ微雨後陰午後二時頃ヨリ半晴
十一日　薄陰午後七時後快晴　午後七時四十分頃地震ス
十二日　薄陰朝霧濃厚午後五時過時々微雨
十三日　陰時々降雨　午後八時十六分頃地震ス
十四日　陰時々降雨午後三時後漸々快晴午後三時頃マテ南風稍强
十五日　午前晴朝霧濃厚午後薄陰夜來快晴　午後四時四十一分頃地震ス
十六日　晴時々半晴
十七日　晴或ハ半晴
十八日　陰午前十時四十分頃ヨリ降雨
十九日　午後五時頃マテ降雨後陰
二十日　陰午後一時三十分頃ヨリ降雨
廿一日　午前五時頃マテ降雨爾後陰午後三時頃ヨリ時々微雨
廿二日　午前陰時々降雨午後半晴
廿三日　陰
廿四日　陰
廿五日　午前六時頃マテ降雨爾後晴午後六時頃ヨリ薄陰　午前八時五十七分頃地震ス
廿六日　午前薄晴午後陰同七時頃ヨリ暫時微雨ス
廿七日　陰午後六時頃暫時快晴
廿八日　晝間晴或ハ半晴夜間薄陰
廿九日　陰午前八時頃暫時微雨シ午後一時頃ヨリ降雨
三十日　薄陰時々降雨

地平磁氣力
HORIZONTAL INTENSITY.

Commenced 3ᵈ 1ʰ 53ᵐ P. M.
Ended 3 2 46

三日午後一時五十三分ヨリ同二時四十六分ニ至ル

偏針角 Deflections.

視閲度 Circle — Readings.

磁針 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	58 29 20	28 40	29 0				
	W.					2	52 2 0	1 30	1 45
	E.	3	58 29 40	29 0	29 20				
	W.					4	52 2 30	2 0	2 15
	E.	5	58 29 40	29 0	29 20				
平均 Means			58° 29′ 13″.3				52° 2′ 00″.		
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
西 West.	W.					6	52 1 0	0 20	0 40
	E.	7	58 24 30	24 0	24 15				
	W.					8	52 1 10	0 40	0 55
	E.	9	58 24 20	23 50	24 5				
	W.					10	52 1 20	0 40	1 0
平均 Means.			58° 24′ 10″.0				52° 0′ 51″.7		

平均温度 Mean Temperature t = 84°.0 Fah.
偏針角 Angle of Deflection u = 3° 12′ 37″.9

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	2 34 26.1	84.6	4.8	55.0	
10	35 11.4				
20	35 56.7				
31	36 46.5				
41	37 31.5				
51	38 16.8				
100	41 58.1				7 32.0
110	42 43.0				31.6
120	43 28.0				31.3
131	44 18.0				31.5
141	45 3.1				31.6
151	45 48.3	85.0	15.2	43.9	31.5
平均 Means.		84.8			7 31.58

物捩差 Mean effect of 90° of Torsion v = 2.10
時儀日差 Daily rate s = 3ˢ.56 losing.

成果 Resulting absolute value X = 6.3277

Commenced 21ᵈ 3ʰ 10ᵐ P. M.
Ended 21 4 25

二十一日午後三時十分ヨリ同四時二十五分ニ至ル

偏針角 Deflections.

視閲度 Circle — Readings.

磁針 Mag.	北端 North end.	No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	295 52 0	51 20	51 40				
	W.					2	289 26 40	26 0	26 20
	E.	3	295 52 0	51 20	51 40				
	W.					4	289 26 40	26 0	26 20
	E.	5	295 52 20	51 40	52 0				
平均 Means.			295° 51′ 46″.7				289° 26′ 20.″0		
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
西 West.	W.					6	289 25 0	24 20	24 40
	E.	7	295 47 50	47 10	47 30				
	W.					8	289 25 20	24 40	25 0
	E.	9	295 48 0	47 20	47 40				
	W.					10	289 25 40	25 0	25 20
平均 Means.			295° 47′ 35″.0				289° 25′ 0″.0		

平均温度 Mean Temperature t = 74.°6 Fah.
偏針角 Angle of Deflection u = 3° 12′ 0.″4.

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.	温度 Temp.	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.
	h m s	°			m s
0	4 7 35.2	75.0	3.5	55.5	
10	8 20.3				
20	9 5.8				
31	9 55.5				
41	10 40.9				
51	11 25.9				
100	15 7.3				7 32.1
110	15 52.5				32.2
120	16 37.7				31.9
131	17 27.7				32.2
141	18 12.9				32.0
151	18 58.0	75.0	13.8	44.6	32.1
平均 Means.		75.0			7 32.08

物捩差 Mean effect of 90° of Torsion v = 2.10
時儀日差 Daily rate s = 2ˢ.30 gaining.

成果 Resulting absolute value X = 6.3315

報月之測觀氣磁
臺象觀軍海京東

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

差偏氣磁
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 7.3	5	4 7.1	9	4 6.3	13	4 8.9	17	4 6.6	21	4 11.1	25	4 7.8	29	4 9.8
2	4 6.6	6	4 6.2	10	4 6.4	14	4 8.5	18	4 8.9	22	4 9.2	26	4 12.7	30	4 10.8
3	4 6.9	7	4 6.1	11	4 8.0	15	4 8.0	19	......	23	4 9.0	27	4 6.9		
4	4 7.7	8	4 5.5	12	4 8.6	16	4 8.1	20	4 10.5	24	4 7.9	28	4 12.5		

均平 Mean = 4° 7.′91

差傾氣磁
Magnetic Inclination.

Commenced 3ᵈ 3ʰ 25ᵐ / Ended 3 3 50 P. M.　三日午後三時二十五分ヨリ同三時五十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 35	49 33	49 47	49 45	49 38	49 35	49 34	49 29	49 46	49 49	49 26	49 29	49 49	49 48	49 31	49 32
49 36	49 35	49 47	49 45	49 41	49 39	49 36	49 31	49 49	49 52	49 27	49 26	49 50	49 50	49 29	49 30
49 35.5	49 34.0	49 47.0	49 45.0	49 39.5	49 37.0	49 35.0	49 30.0	49 47.5	49 50.5	49 26.5	49 27.5	49 49.5	49 49.0	49 30.0	49 31.0
49 34.8		49 46.0		49 38.3		49 32.5		49 49.0		49 27.0		49 49.3		49 30.5	
49 40.4				49 31.4				49 38.0				49 39.9			
49 35.9								49 38.9							

果成 Resulting Dip = 49° 37.′4

Commenced 21ᵈ 4ʰ 41ᵐ / Ended 21 5 0 P. M.　二十一日午後四時四十一分ヨリ同五時零分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 45	49 43	49 41	49 39	49 44	49 43	49 33	49 29	49 47	49 48	49 26	49 26	49 36	49 39	49 34	49 37
49 46	49 44	49 38	49 36	49 41	49 39	49 31	49 29	49 48	49 50	49 28	49 28	49 42	49 45	49 30	49 34
49 45.5	49 43.5	49 39.5	49 37.5	49 42.5	49 41.0	49 32.0	49 29.0	49 47.5	49 49.0	49 27.0	49 27.0	49 39.0	49 42.0	49 32.0	49 35.5
49 44.5		49 38.5		49 41.8		49 30.5		49 48.3		49 27.0		49 40.5		49 33.7	
49 41.5				49 36.1				49 37.7				49 37.1			
49 38.8								49 37.4							

果成 Resulting Dip = 49° 38.′1

天候 WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus.	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	1	3	...	...	1	...	2	...	...	...	1	3.3	...
2	...	1	1	5	...	...	...	...	...	...	1	4.8	...
3	...	...	...	6	...	1	1	...	...	...	...	8.3	...
4	...	...	...	2	...	4	...	2	...	...	...	10.0	0.05
5	1	1	...	2	2	2	...	...	...	...	...	6.9	0.17
6	2	...	1	3	1	...	1	...	...	...	...	6.6	...
7	...	...	...	3	...	3	2	...	...	...	...	7.9	...
8	...	...	2	2	1	1	...	2	...	...	...	9.3	...
9	...	2	1	...	...	...	...	5	...	...	...	10.0	0.02
10	1	...	4	1	...	...	2	...	...	...	...	8.8	0.07
11	...	...	...	6	...	1	...	...	...	...	1	6.9	...
12	...	...	2	2	2	...	...	1	...	1	...	9.0	...
13	...	...	1	...	...	4	...	3	...	...	...	10.0	0.02
14	...	...	1	...	1	2	1	1	...	...	2	6.9	0.08
15	...	1	1	...	2	2	...	...	...	1	1	4.5	0.01
16	...	...	1	1	2	2	2	...	...	...	...	4.8	...
17	...	...	...	4	2	...	1	...	...	...	1	3.4	...
18	...	...	2	...	...	1	...	5	...	...	...	9.9	...
19	...	...	...	3	...	...	...	5	...	...	...	10.0	1.02
20	...	...	3	...	...	1	...	4	...	...	...	10.0	0.21
21	...	...	2	1	...	2	...	3	...	...	...	9.9	0.88
22	...	...	2	...	3	...	1	2	...	...	...	7.0	0.12
23	...	...	6	...	...	2	...	...	...	...	...	10.0	...
24	...	1	2	1	...	4	...	...	...	...	...	9.9	...
25	1	...	...	1	1	3	1	1	...	...	...	7.9	...
26	...	...	1	3	2	1	1	...	...	...	...	8.5	...
27	...	2	3	...	2	1	...	...	...	...	...	8.0	...
28	...	...	2	2	1	3	...	...	...	...	...	6.0	...
29	...	...	1	1	...	2	...	4	...	...	...	9.8	...
30	...	1	2	...	2	...	...	3	...	...	...	9.6	2.03
合計 Sums.	6	12	41	49	25	42	15	41	...	2	7	...	4.68
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	7.9	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	...	...	...	...	...	...	...	...	18	245.4	4	38.5	2	6.8	...	...	24	290.7	S.	22.0
2	...	...	...	...	...	...	...	2	20.2	16	169.1	2	7.7	4	13.5	...	...	24	210.5	S.	15.2
3	...	...	...	...	...	...	...	...	...	22	327.9	2	38.9	...	...	...	...	24	366.8	S.	25.3
4	...	4	17.5	4	14.6	...	...	...	...	4	55.1	4	46.2	3	14.8	5	21.6	24	170.0	S.W.	20.0
5	...	3	16.4	4	25.7	4	22.8	9	46.5	...	...	...	...	...	...	4	29.0	24	140.4	S. E.	9.1
6	...	8	29.1	1	3.0	4	18.3	8	42.5	...	...	1	3.5	...	...	2	7.2	24	103.6	S. E.	6.8
7	...	5	23.8	...	...	1	2.6	2	21.8	8	61.6	3	18.7	...	...	5	28.6	24	157.1	S.	11.6
8	...	2	13.0	...	...	3	8.7	1	6.5	11	67.0	1	2.6	2	7.7	4	14.9	24	120.4	S.	11.3
9	...	4	28.8	7	43.5	1	3.8	...	...	...	...	...	...	...	...	12	68.4	24	144.5	N.	9.7
10	...	4	15.2	...	...	...	...	3	12.9	2	10.3	1	3.9	...	...	14	23.8	24	65.7	S.	7.4
11	1	...	...	...	...	...	...	7	26.8	4	4.7	1	2.0	...	...	11	21.2	24	54.7	S. E.	5.2
12	...	3	6.5	...	...	...	...	6	28.3	2	9.5	6	23.8	...	...	7	21.3	24	89.4	S. E.	6.6
13	...	...	...	...	...	...	...	...	...	12	167.3	12	67.9	...	...	...	...	24	235.2	S.	24.9
14	...	...	...	...	...	...	...	...	...	16	410.6	8	150.9	...	...	...	...	24	561.5	S. W.	*34.3
15	...	8	50.2	...	...	...	...	1	5.8	2	17.2	1	12.6	3	15.6	9	53.2	24	154.6	N.W.	14.1
16	...	2	14.8	...	...	...	...	...	...	...	...	...	...	...	...	22	244.6	24	259.4	N.W.	18.9
17	...	14	131.4	...	...	...	...	2	22.7	6	37.8	...	...	1	4.0	1	10.9	24	206.8	N.	13.3
18	...	10	47.4	...	...	...	...	...	...	2	4.4	...	...	...	...	12	55.5	24	107.3	N.W.	8.5
19	...	8	52.5	...	...	...	...	...	...	...	...	...	...	...	...	16	62.4	24	114.9	N.	12.4
20	...	13	108.3	1	11.3	...	...	...	...	...	...	...	...	...	...	10	45.1	24	164.7	N. E.	11.3
21	...	4	31.4	1	7.3	5	13.8	5	27.5	2	7.2	...	...	...	...	7	56.3	24	143.5	N.	9.9
22	...	5	14.7	...	...	...	...	...	...	11	48.9	...	...	...	...	8	35.2	24	98.8	S.	11.3
23	...	6	67.4	11	46.3	7	40.8	...	...	...	...	...	...	...	...	...	...	24	154.0	N.	15.0
24	...	18	85.2	...	...	...	...	...	...	...	...	...	...	...	...	6	25.2	24	110.4	N.	7.5
25	...	15	159.3	...	...	...	...	...	...	...	...	...	...	...	...	9	41.1	24	200.4	N.	16.3
26	...	15	93.7	...	...	...	...	8	24.5	...	...	...	...	...	...	1	1.6	24	119.8	N.	8.9
27	...	10	67.0	14	140.0	...	...	...	...	...	...	...	...	...	...	...	...	24	207.7	N. E.	18.4
28	...	9	56.6	2	13.4	6	26.9	7	39.1	...	...	...	...	...	...	...	...	24	136.0	S. E.	8.5
29	...	8	22.1	3	22.8	...	...	1	2.6	...	...	6	17.7	1	0.4	5	12.9	24	78.5	N. E.	8.8
30	...	13	111.7	10	48.5	...	...	...	...	...	...	...	...	...	...	1	3.4	24	163.6	N.	10.9
計合 Sums.	1	191	1264.0	58	376.4	31	137.2	62	326.8	138	1644.2	52	434.9	16	62.8	171	883.4	720	5129.7	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.W	34.3

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	85	89	73	71	65	76	87	83
2	89	98	75	68	67	80	86	86
3	91	90	76	68	61	74	77	78
4	78	87	71	81	81	85	91	96
5	86	90	70	60	58	63	74	82
6	93	98	79	54	64	64	79	94
7	96	94	83	63	67	77	82	89
8	91	91	80	74	76	76	84	76
9	81	86	90	95	92	95	98	97
10	99	98	95	86	76	89	96	94
11	99	97	75	63	71	73	95	94
12	94	100	87	76	72	89	89	89
13	91	93	89	94	91	92	94	88
14	88	91	92	84	86	85	78	77
15	83	100	60	64	74	73	77	73
16	74	75	65	52	53	65	62	69
17	71	78	56	57	56	67	74	84
18	92	91	78	83	94	98	99	98
19	98	100	98	98	94	97	98	98
20	99	97	86	85	95	97	99	98
21	98	96	80	78	79	94	94	98
22	98	100	97	73	80	89	94	86
23	94	84	81	68	71	68	72	88
24	85	88	80	72	78	86	91	92
25	97	62	62	66	63	69	73	71
26	76	80	74	64	51	71	88	95
27	88	83	78	68	66	78	82	92
28	87	92	69	60	54	67	78	84
29	91	92	83	74	87	91	99	99
30	99	85	90	66	62	81	82	78
平均 Means.	90	91	79	72	73	81	86	88

日次 Date.	水氣張力 ELASTIC FORCE OF VAPOUR.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.704	0.721	0.761	0.751	0.728	0.738	0.764	0.716
2	0.684	0.726	0.774	0.815	0.820	0.796	0.788	0.764
3	0.777	0.751	0.785	0.796	0.790	0.744	0.746	0.759
4	0.759	0.774	0.692	0.694	0.648	0.680	0.692	0.678
5	0.556	0.554	0.550	0.598	0.620	0.558	0.588	0.545
6	0.537	0.541	0.584	0.556	0.682	0.588	0.657	0.601
7	0.560	0.546	0.641	0.675	0.751	0.689	0.687	0.697
8	0.723	0.678	0.678	0.834	0.846	0.793	0.785	0.701
9	0.664	0.617	0.648	0.708	0.673	0.668	0.673	0.659
10	0.671	0.680	0.721	0.718	0.793	0.851	0.834	0.766
11	0.749	0.711	0.772	0.774	0.891	0.810	0.810	0.689
12	0.650	0.706	0.756	0.799	0.785	0.857	0.774	0.754
13	0.766	0.788	0.840	0.840	0.857	0.854	0.874	0.871
14	0.877	0.897	0.921	0.965	0.946	0.837	0.637	0.613
15	0.574	0.622	0.624	0.751	0.766	0.641	0.528	0.465
16	0.456	0.449	0.543	0.548	0.584	0.554	0.419	0.421
17	0.424	0.419	0.431	0.535	0.543	0.529	0.535	0.533
18	0.516	0.503	0.514	0.588	0.601	0.607	0.598	0.592
19	0.582	0.596	0.596	0.609	0.644	0.620	0.607	0.598
20	0.594	0.558	0.574	0.635	0.626	0.609	0.609	0.586
21	0.566	0.550	0.603	0.620	0.680	0.666	0.655	0.646
22	0.637	0.639	0.659	0.692	0.716	0.708	0.659	0.580
23	0.601	0.494	0.500	0.479	0.516	0.421	0.434	0.462
24	0.464	0.462	0.482	0.492	0.498	0.518	0.511	0.496
25	0.524	0.470	0.433	0.529	0.545	0.453	0.388	0.356
26	0.334	0.340	0.386	0.520	0.416	0.482	0.548	0.558
27	0.503	0.459	0.480	0.501	0.500	0.498	0.491	0.465
28	0.449	0.415	0.453	0.505	0.473	0.491	0.518	0.543
29	0.503	0.503	0.533	0.546	0.601	0.558	0.554	0.552
30	0.552	0.470	0.548	0.533	0.501	0.560	0.491	0.446
平均 Means.	0.599	0.588	0.616	0.654	0.668	0.646	0.628	0.604

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	68.8	69.5	71.1	70.7	69.8	70 2	71.2	69.3
2	68.0	69.7	71.6	73.1	73.3	72.4	72.1	71.2
3	71.7	70.7	72.0	72.4	72.2	70.4	70.5	71.0
4	71.0	71.6	68.3	68.4	66.4	67.8	68.3	67.7
5	62.0	61.9	61.7	64.1	65.1	62.1	63.6	61.4
6	61.0	61.2	63.4	62.0	67.9	63.6	66.8	64.2
7	62.2	61.5	66.1	67.6	70.7	68.2	68.1	68.5
8	69.6	67.7	67.7	73.8	74.2	72.3	72.0	68.7
9	67.1	65.0	66.4	69.0	67.5	67.3	67.5	66.9
10	67.4	67.8	69.5	69.4	72.3	74.4	73.8	71.3
11	70.6	69.1	71.5	71.6	75.8	72.9	72.9	68.2
12	66.6	68.9	70.9	72.5	72.0	74.6	71.6	70.8
13	71.3	72 1	74.0	74.0	74.6	74.5	75.2	75.1
14	75.3	76.0	76.8	78.2	77.6	73.9	65.9	64.8
15	62.9	65.2	65.3	7.07	71.3	66.1	60.5	57.0
16	56.4	56.0	61.3	61.6	63.4	61.9	54.1	54.2
17	54.4	54.1	54.9	60.9	61.3	60.6	60.9	60.8
18	59.9	59.2	59 8	63.6	64.2	64.5	64.1	63.8
19	63.3	64.0	64.0	64.6	66.2	65.1	64.5	64.1
20	63.9	62.1	62.9	65.8	65.4	64.6	64.6	63.5
21	62.5	61.7	66.3	65.1	67.8	67.2	66.7	66.3
22	65.9	66.0	66.9	68.3	69.3	69.0	66.9	63.2
23	64.2	58.7	59.0	57.8	59.9	54.2	55.1	56.8
24	56.9	56.8	58.0	58.6	58.9	60.0	59.6	58.8
25	60.3	57.3	55.0	60.6	61.4	56.2	52.0	49.6
26	47.9	48.4	51.9	60.1	53.9	58.0	61.6	62.1
27	59.2	56.6	57.9	59.1	59.0	58.9	58.5	57.0
28	56.0	53.8	56.2	59.3	57.5	58.5	60.0	61.3
29	59.2	59.2	60.8	61.5	64.2	62.1	61.9	61.8
30	61.8	57.3	61.6	60.8	59.1	62.2	58.5	55.8
平均 Means.	63.6	63.0	64.4	66.2	66.7	65.8	65.0	63.8

明治二十年九月

SEPTEMBER. 1887.

寒暑鍼

THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	73.8	73.2	80.7	81.3	82.7	78.2	75.5	74.8
2	71.5	70.4	80.0	84.6	85.3	79.0	76.5	75.6
3	74.3	73.8	80.0	84.0	87.0	79.3	78.0	78.6
4	78.1	75.7	78.6	74.5	72.5	72.9	71.0	69.5
5	66.1	65.0	72.0	78.9	81.0	76.0	72.2	67.3
6	63.0	61.9	70.1	79.8	81.5	76.7	73.7	66.1
7	63.5	63.2	71.7	81.5	82.7	76.0	74.0	72.0
8	72.4	70.6	74.3	83.1	82.5	80.3	77.1	76.7
9	73.5	69.6	69.4	70.4	70.0	68.7	68.0	67.8
10	67.8	68.3	70.9	73.9	80.9	77.8	75.2	73.0
11	71.0	70.0	80.1	85.3	86.6	82.5	74.4	70.0
12	68.3	69.1	75.0	81.1	82.0	78.0	75.0	74.0
13	74.0	74.0	77.4	76.7	77.3	77.0	77.1	79.0
14	79.5	79.0	79.7	83.5	82.2	79.0	73.2	72.3
15	68.3	65.2	79.9	84.0	80.5	75.5	68.1	66.0
16	65.2	63.0	73.7	80.4	82.3	74.3	67.5	64.8
17	63.9	61.0	71.5	77.0	78.2	72.0	69.9	65.8
18	62.2	62.0	67.0	68.9	66.0	65.0	64.5	64.3
19	64.0	64.0	64.7	65.1	68.0	66.0	65 0	64.8
20	64.3	63.0	67.2	70.5	66.8	65.5	65.0	64.0
21	63.1	63.0	71.0	72.5	74.7	69.0	68.5	67.0
22	66.4	66.0	68.0	77.5	75.8	72.7	68.7	67.7
23	66.0	63.7	65.0	69.0	69.8	65.3	64.0	60.5
24	61.5	60.5	64.2	68.0	65.9	64.4	62.2	61.3
25	61.0	61.0	68.7	72.3	74.2	67.0	61.0	59.0
26	55.4	54.7	60.2	73.3	72.9	67.8	65.2	63.7
27	62.7	62.0	64.7	70.2	71.0	66.3	64.0	59.5
28	60.0	56.2	67.0	74.5	75.0	70.0	67.0	66.2
29	61.8	61.3	66.2	70.3	68.2	64.8	62.3	62 2
30	62.2	61.7	64.7	73.0	73.0	68.3	64.3	62.6
平均 Means.	66.8	65.7	71.5	76.1	76.6	72.5	69.6	67.9

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	30.014	30.016	30.044	30.035	30.003	29.999	30.020	30.019
2	29.994	30.011	30.029	29.990	29.954	29.942	29.963	29.944
3	29.921	29.907	29.888	29.849	29.778	29.731	29.738	29.717
4	29.686	29.752	29.786	29.829	29.842	29.897	29.973	30.004
5	30.035	30.073	30.127	30.131	30.114	30.132	30.191	30.198
6	30.203	30.212	30.240	30.234	30.214	30.199	30.226	20.222
7	30.204	30.222	30.217	30.178	30.107	30.087	30.094	30.043
8	30.001	29.948	29.965	29.931	29.905	29.921	29.968	29.958
9	29.957	29.996	30.000	29.996	29.955	29.945	29.948	29.903
10	29.876	29.890	29.864	29.841	29.770	29.743	29.797	29.784
11	29.758	29.787	29.845	29.853	29.835	29.866	29.913	29.937
12	29.911	29.949	29.965	29.966	29.930	29.934	29.938	29.899
13	29.886	29.876	29.865	29.851	29.806	29.778	29.739	29.668
14	29.584	29.558	29.468	29.434	29.370	29.374	29.418	29.446
15	29.467	29.505	29.548	29.537	29.543	29.612	29.671	29.682
16	29.724	29.758	29.804	29.833	29.843	29.887	29.939	29.973
17	29.985	30.057	30.104	30.097	30.061	30.080	30.123	30.107
18	30.084	30.082	30.083	30.038	29.988	29.975	29.954	29.935
19	29.886	29.867	29.857	29.860	29.835	29.864	29.904	29.922
20	29.943	29.969	29.982	29.971	29.932	29.912	29.917	29.897
21	29.893	29.932	29.968	29.943	29.911	29.942	29.932	29.908
22	29.879	29.876	29.899	29.852	29.805	29.813	29.827	29.822
23	29.867	29.919	29.978	29.992	29.953	29.961	29.977	29.948
24	29.917	29.902	29.904	29.813	29.742	29.717	29.701	29.637
25	29.634	29.662	29.718	29.746	29.740	29.812	29.906	29.940
26	29.955	29.978	30.020	29.992	29.933	29.948	29.974	29.947
27	29.942	29.947	29.989	29.902	29.981	29.997	30.033	30.044
28	30.027	30.050	30.069	30.036	30.003	29.997	30.016	30.001
29	29.975	29.989	29.987	29.936	29.890	29.905	29.912	29.841
30	29.799	29.798	29.825	29.832	29.828	29.894	29.990	30.014
平均 Means.	29.900	29.916	29.935	29.920	29.886	29.895	29.923	29.912

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32° F. & sea level. 平均 Mean.	極高 Max.	極低 Min.	寒暑鍼 Thermometer. 平均 Mean.	極高 Max.	極低 Min.	露點溫度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat. =100).	無氣中日溫度 極高 Vacuum solar radiation Max.	日溫度 極高 Solar radiation Max.	地溫度 極低 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	30.019	30.044	29.999	77.5	85.0	73.0	70.1	0.735	79	112.7	110.2	66.0
2	29.978	30.029	29.942	77.9	85.5	69.8	71.4	0.771	81	151.8	*115.0	62.7
3	29.816	29.921	29.717	79.4	87.0	73.0	71.4	0.769	77	151.8	110.0	66.6
4	29.846	30.004	29.686	74.1	82.1	68.9	68.7	0.702	84	140.0	102.1	64.4
5	30.125	30.198	30.035	72.3	82.7	63.2	62.7	0.571	73	145.0	105.8	55.7
6	30.219	*30.240	30.199	71.6	83.2	61.2	63.8	0.593	78	144.7	109.2	54.0
7	30.144	30.222	30.043	73.1	83.0	62.8	66.6	0.656	81	151.9	112.2	56.3
8	29.950	30.001	29.905	77.1	*87.8	70.2	70.8	0.755	81	*152.4	114.5	63.6
9	29.963	30.000	29.903	69.7	76.7	67.0	67.1	0.664	92	91.2	79.5	63.5
10	29.821	29.890	29.749	73.5	81.5	67.1	70.7	0.754	92	143.2	112.0	63.5
11	29.849	29.937	29.753	77.5	87.5	69.2	71.6	0.776	83	141.8	110.5	61.5
12	29.937	29.966	29.899	75.3	83.2	67.1	71.0	0.760	87	132.2	105.0	60.8
13	29.809	29.886	29.668	76.5	79.7	72.8	73.9	0.836	92	101.5	84.0	67.5
14	29.457	29.584	*29.370	78.6	85.0	72.0	73.6	0.837	85	129.7	103.9	62.0
15	29.571	29.682	29.467	73.4	86.0	64.1	64.9	0.621	76	151.0	110.3	55.0
16	29.845	29.973	29.724	71.4	82.5	61.9	58.6	0.497	64	143.0	102.1	52.7
17	30.077	30.123	29.985	69.9	81.5	60.5	58.5	0.494	68	144.4	104.5	51.5
18	30.017	30.084	29.935	65.0	69.9	61.0	62.4	0.565	92	99.7	80.6	54.0
19	29.874	29.922	29.835	65.2	73.2	63.2	64.5	0.607	98	85.6	71.8	58.9
20	29.940	29.982	29.897	65.8	71.5	62.5	64.1	0.599	95	126.8	91.5	58.5
21	29.929	29.968	29.893	68.6	78.1	62.0	65.2	0.623	90	139.6	106.0	57.5
22	29.847	29.899	29.805	70.4	80.1	65.5	66.9	0.661	90	142.2	103.1	56.5
23	29.949	29.902	29.867	65.4	71.0	59.8	58.2	0.488	78	121.5	91.5	57.0
24	29.792	29.917	29.639	63.5	71.0	59.7	58.5	0.490	84	136.9	99.5	54.5
25	29.770	29.940	29.634	65.5	75.0	56.8	56.6	0.462	74	141.2	97.1	45.8
26	29.968	30.020	29.933	64.2	75.2	*54.0	55.5	0.448	75	145.3	104.8	*45.0
27	29.991	30.044	29.942	65.1	73.0	59.0	58.3	0.487	79	130.8	97.3	51.2
28	30.025	30.069	29.997	67.0	76.9	55.5	57.8	0.481	74	148.8	107.0	48.0
29	29.929	29.989	29.841	64.6	72.6	60.3	61.3	0.544	90	143.0	106.5	54.5
30	29.873	30.014	29.798	66.2	74.7	60.9	59.6	0.513	80	134.8	99.0	56.0
平均 Means.	29.911	...	...	70.8	...	...	64.8	0.625	82	...	...	...
至極 Max. & Min.	...	30.240	29.370	...	87.8	54.0	...	...	...	152.4	115.0	45.0

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス
又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁竿中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁竿ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Beckley's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer. *

* The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection = 1. 3 feet.

The angular value of one scale division of the vibration magnet = 2′.37.

觀象臺長	海軍五等技師	中川將行閎
觀測士	海軍六等技師	伊藤直温
觀測助手	海軍屬	嘉納謙作
同	海軍屬	日比翁助
同	海軍屬	白井正信
同	海軍八等技手	小澤兼藏
同	海軍十等技手	永江董

(Signed) Director.
M. Nakagawa.

Observer.
N. Itō.

Assistant.
„ K. Kanō.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	C. in a.m.; B.C. in p.m.; R. after 8.20 p.m.
2	C., with R. at times in a.m.; *f.p.* in p.m.; C. after 11 p.m.
3	C.; with R. at times; C. 9 a.m.—9 p.m.
4	C., with R. at times.
5	C., with R. at times.
6	*d.*; D at times.
7	R.; B. after 8 a.m.; C. after 9 p.m.
8	*d.*, with R. at times.
9	*d.*, with B. at times; R. at times after 2 p.m.
10	*d.*, with R. at times in a.m.; *f.p.* in p.m.
11	*f.p.*
12	*f.p.*
13	*d.* in a.m.; D. at 8.35; *f.p.* in p.m.
14	R. at times; *f.p.* after 7 a.m.
15	*f.d.* in day; *f.p.* in night; E. at 0.56 a.m.
16	F. until day break; *d.*; T., with p. at times after 0.40 p.m.; *f.p.* after 8 p.m.
17	*f.d.* in day; B. in night.
18	*d.*, with B.C.; F. in night.
19	F. in morning; *d.*, with B at times; D. at noon & 10 p.m.
20	B.; *d.*, with D. at times after 10 a.m.
21	*d.*; R. at 9 a.m.; *f.p.* after 7 p.m.
22	B. until day break; C.; D. at noon.
23	B.C. in a.m.; *f.p.* in p.m.
24	*f.p.*; F. in morning.
25	C.; B.C. after 10 a.m.
26	B.C.; *f.p.* in night.
27	B.C. in day; *f.p.* in night; F. in morning.
28	F. in morning; B.; C. after 5 p.m.; T. at times after 6.30 p.m.; P. at times after 7 p.m.; *d.* after 9 p.m.
29	*f.p.* till 4 a.m.; *f.d.*; C. in night.
30	C., with B.C. at times; D. at 2.30 a.m.
31	*d.*; R. at times till 7 a.m.; B. at times in night.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黑 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 w (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日	午前陰午後半晴同八時二十分頃ヨリ降雨
二日	午前陰時々降雨午後漸々快晴同十一時頃ヨリ復陰
三日	午前九時頃マテ時々細雨爾後陰午後九時過ヨリ復時々降雨
四日	陰天時々降雨
五日	陰天時々降雨
六日	薄陰時々微雨
七日	午前八時頃マテ時々降雨後漸々晴午後九時頃ヨリ陰
八日	薄陰時々降雨
九日	薄陰時々晴午後二時過ヨリ屢々降雨
十日	午前薄陰時々降雨午後漸々快晴
十一日	快晴
十二日	快晴
十三日	午前薄陰同八時三十五分頃暫時疎雨午後快晴
十四日	午前七時頃マテ時々降雨爾後漸々快晴
十五日	晝間薄晴夜間快晴　午前零時五十六分頃地震ス
十六日	拂曉前濃霧後薄陰午前零時四十分ヨリ雷鳴時々驟雨同八時後漸々快晴
十七日	晝間薄晴夜間晴
十八日	薄陰時々半晴夜ニ入リ濃霧
十九日	午前八時頃マテ濃霧爾後薄陰時々晴正午頃及午後十時頃暫時疎雨
二十日	午前十時頃マテ晴爾後薄陰時々微雨
廿一日	薄陰午前九時頃暫時降雨午後七時後漸々快晴
廿二日	拂曉前晴爾後陰正午頃暫時微雨
廿三日	午前半晴午後快晴
廿四日	快晴朝霧濃厚
廿五日	午前十時頃マテ陰爾後半晴
廿六日	半晴夜ニ入リ快晴
廿七日	晝間半晴夜間快晴朝霧濃厚
廿八日	朝霧濃厚爾後晴午後五時頃ヨリ陰同六時三十分ヨリ屢々雷鳴同七時過ヨリ時々驟雨同九時過薄陰
廿九日	午前四時頃マテ快晴後薄晴夜來陰
三十日	陰時々半晴午前二時三十分頃暫時微雨
卅一日	薄陰午前七時頃マテ時々降雨夜來時々晴

力氣磁平地
HORIZONTAL INTENSITY.

6th Beginning / Ending time 4h 10m / 5 27 P. M. — ル至ニ分七十二時五同リヨ分十時四後午日六

角針偏 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean ′ ″
東 East.	E.	1	302 50 40	50 0	50 20				
	W.					2	296 22 40	22 0	22 20
	E.	3	302 51 30	50 40	51 5				
	W.					4	296 23 20	22 40	23 0
	E.	5	302 51 50	51 10	51 30				
均平	Means		302° 50′ 58″.3			…………	296° 22′ 40″.0		
西 West.	W.					6	296 22 40	22 0	22 20
	E.	7	302 48 30	47 40	48 5				
	W.					8	296 23 0	22 20	22 40
	E.	9	302 49 0	48 0	48 30				
	W.					10	296 23 0	22 20	22 40
均平	Means.		302° 48′ 17″.5			…………	296° 22′ 33″.3		

時振搖 Oscillations.

數振 No. of Osc.	時測 Time. h m s	度温 Temp. °	數閱視之端兩度尺 Extreme Scale-readings.		時之振百 Time of 100 Oscillations. m s
0	5 12 39.0	80.8	9.7	51.3	
10	13 24.3				
20	14 9.5				
31	14 59.0				
41	15 43.9				
51	16 27.0				
100	20 10.0				7 31.0
110	20 55.0				30.7
120	21 40.0				30.5
131	22 29.5				30.5
141	23 14.8				30.9
151	24 .0	80.4	21.2	39.8	31.0
均平 Means.		80.6	…………		7 30.77

度温均平 Mean Temperature t = 80°.0 fah.
角針偏 Angle of Deflection u = 3° 13′ 30″.6
差捩㧱 Mean effect of 90° of Torsion v = 1.58
差日儀時 Daily rate s = 7s.2 losing.

果成 Resulting absolute value X = 6.3255

25th Beginning / Ending time 3h 5m / 4 22 P. M. — ル至ニ分二十二時四同リヨ分五時三後午日五廿

角針偏 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	180 38 0	37 20	37 40				
	W.					2	174 10 20	9 40	10 00
	E.	3	180 38 0	37 20	37 40				
	W.					4	174 10 20	9 40	10 00
	E.	5	180 33 0	37 20	37 40				
均平	Means.		180° 37′ 14″.5			…………	174° 10′ 0.″0		
西 West.	W.					6	174 7 40	7 0	7 20
	E.	7	180 32 20	31 30	31 55				
	W.					8	174 8 00	7 20	7 40
	E.	9	180 32 10	31 20	31 45				
	W.					10	174 8 20	7 40	8 0
均平	Means.		181° 31′ 50″.0			…………	174° 7′ 40″.0		

時振搖 Oscillations.

數振 No. of Osc.	時測 Time. h m s	度温 Temp. °	數閱視之端兩度尺 Extreme Scale-readings.		時之振百 Time of 100 Oscillations. m s
0	4 7 48.9	87.0	1.6	59.0	
10	8 33.9				
20	9 18.9				
31	10 8.6				
41	10 53.5				
51	10 38.5				
100	15 19.6				7 30.7
110	16 5.0				31.1
120	16 50.0				31.1
131	17 39.2				30.6
141	18 24.3				30.8
151	19 9.6	86.6	14.7	45.7	31.1
均平 Means.		86.0	…………		7 30.90

度温均平 Mean Temperature t = 88.°0 fah.
角針偏 Angle of Deflection u = 3° 12′ 57.″5.
差捩㧱 Mean effect of 90° of Torsion v = 1.70
差日儀時 Daily rate s = 14s.4 gaining.

果成 Resulting absolute value X = 6.3302

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS, NAVAL OBSERVATORY, TOKIO.

磁氣偏差 Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 3.3	5	4 6.0	9	4 3.5	13	4 4.3	17	4 4.4	21	4 3.5	25	4 3.8	29	4 7.9
2	4 4.1	6	4 5.5	10	4 3.1	14	4 1.6	18	4 2.8	22	4 3.6	26	4 3.5	30	4 7.7
3	4 4.7	7	4 6.0	11	4 3.2	15	4 4.5	19	4 4.5	23	4 5.5	27	4 3.6	31	4 6.9
4	4 6.8	8	4 7.3	12	4 3.3	16	4 4.9	20	4 4.2	24	4 2.9	28	4 2.2		

平均 Mean = 4° 4.′49

磁氣傾差 Magnetic Inclination.

6th. Beginning / Ending time $4^h\ 45^m$ / $6\ \ 5$ P. M. 六日午後四時四十五分ヨリ同六時五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 43	49 42	50 5	50 4	49 42	49 38	49 40	49 35	49 39	49 41	49 24	49 27	49 47	49 48	49 40	49 41
49 41	49 41	50 2	50 1	49 39	49 36	49 39	49 34	49 40	49 42	49 25	49 28	49 44	49 43	49 41	49 43
49 42.0	49 41.5	50 3.5	50 2.5	49 40.5	49 37.0	49 39.5	49 34.5	49 39.5	49 41.5	49 24.5	49 27.5	49 45.5	49 45.5	49 40.5	49 42.0
49 41.8		50 3.0		49 38.8		49 37.9		49 40.5		49 26.0		49 45.5		49 41.3	
49 52.4				46 37.9				49 33.2				49 43.4			
49 45.1								49 38.3							

成果 Resulting Dip = 49° 41.′7

25th. Beginning / Ending time $4^h\ 50^m$ / $5\ \ 18$ P. M. 廿五日午後四時五十分ヨリ同五時十八分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 37	49 38	49 46	49 46	49 39	49 37	49 27	49 25	49 40	49 40	49 27	49 29	49 43	49 43	49 37	49 39
49 36	49 37	49 47	49 45	49 43	49 41	49 31	49 28	49 42	49 43	49 25	49 27	49 41	49 40	49 34	49 38
49 36.5	49 3[illegible]	49 46.5	49 45.5	49 41.0	49 39.0	49 29.0	49 26.5	49 41.0	49 41.5	49 26.0	49 28.0	49 42.0	49 41.5	49 35.5	49 38.5
49 37.0		49 46.0		49 40.0		49 27.8		49 41.2		49 27.0		49 41.8		49 37.0	
49 41.5				49 33.9				49 34.1				49 39.4			
49 37.7								49 36.7							

成果 Resulting Dip=49° 37.′2

天候
WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	1	...	3	1	1	...	2	...	...	...	8.5	...
2	...	3	...	2	...	2	...	1	...	...	...	7.1	0.01
3	...	...	2	4	1	...	...	1	...	...	...	8.5	0.02
4	...	4	2	1	...	...	...	1	...	...	...	10.0	0 20
5	...	1	2	2	...	...	...	3	...	...	...	9.9	0.31
6	...	2	...	4	2	...	...	...	...	...	...	8.6	0.05
7	...	...	1	5	...	...	...	1	...	...	1	5.8	0.31
8	...	3	2	...	...	2	1	...	...	...	...	8.4	0.16
9	...	1	...	3	2	1	...	1	...	...	...	6.8	0.09
10	...	3	...	2	1	2	...	...	...	...	...	4.3	0.19
11	...	1	...	3	1	...	1	...	...	...	2	1.8	...
12	...	2	...	1	1	...	...	...	...	...	4	1.3	...
13	...	2	...	3	...	1	...	...	...	...	2	3.3	...
14	1	...	...	4	...	1	1	...	...	...	1	3.3	0.16
15	1	...	...	4	...	1	1	...	...	...	1	4.0	...
16	...	1	...	2	...	2	1	...	...	1	1	7.6	...
17	...	...	1	1	2	3	1	...	...	...	...	6.0	0.51
18	...	1	1	4	2	...	...	...	...	...	...	6.6	...
19	...	1	1	3	...	...	1	...	...	2	...	7 1	...
20	...	...	1	2	1	2	1	...	...	...	1	5.9	0.97
21	...	...	3	2	2	...	...	1	...	...	...	8.5	...
22	...	...	5	1	...	1	...	1	...	...	...	8.9	...
23	...	3	1	...	1	1	...	...	...	...	2	4.4	...
24	...	1	...	1	1	1	...	...	...	1	3	2.4	...
25	...	1	2	2	2	1	...	...	...	...	...	7.8	...
26	4	...	1	3	...	...	...	...	...	...	...	3.9	...
27	2	...	...	3	1	...	...	...	...	1	1	5.9	...
28	1	...	2	2	1	1	...	...	...	1	...	6.1	...
29	...	...	1	5	...	1	1	...	...	...	...	6.1	0.59
30	...	2	2	2	...	2	...	...	...	...	...	8.3	...
31	...	...	1	4	2	...	...	1	...	...	...	8.6	0.08
計合 Sums.	9	33	31	78	24	26	9	13	...	6	19	...	3.65
均平 Means.	...	...	...	...	...	...	...	...	...	...	...	6.3	...

風
WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	3	20.2	18	105.3	3	20.9	...	...	...	...	...	...	...	...	...	...	24	155.4	N. E.	11.5
2	...	8	37.6	3	19.4	6	31.5	7	50.7	..	...	...	...	...	...	...	..	24	139.2	S. E.	9.5
3	...	7	41.8	2	11.2	1	3.5	8	58.3	2	9.2	2	10.8	...	...	2	7.7	24	142.5	S. E.	10.8
4	...	...	...	...	...	4	26.4	14	147.1	6	78.[illegible]	...	...	...	...	...	...	24	251.8	S. E.	15.4
5	...	...	...	...	...	...	...	13	137.0	11	146.3	...	...	...	...	...	...	24	283.9	S.	16.9
6	...	...	...	...	...	1	10.2	19	195.6	4	52.2	...	...	...	...	...	...	24	258.0	S.	14.2
7	...	..	...	4	15.7	12	78.7	8	53.6	...	...	...	...	...	...	...	...	24	148.0	S. E.	12.2
8	...	9	69.5	15	128.8	...	..	...	...	...	...	...	...	...	...	.	...	24	198.3	N.	13.7
9	...	...	...	18	172.9	6	80.8	...	...	...	...	...	...	...	...	..	...	24	253.7	N. E.	16.3
10	...	...	...	...	...	3	21.6	6	67.4	15	213.3	..	...	...	...	...	...	24	302.3	S.	20.0
11	...	...	...	...	...	...	...	2	25.0	20	170.3	2	11.3	...	...	...	...	24	206.6	S.	15.1
12	...	...	...	...	...	..	...	5	36.5	18	114.5	1	2.7	...	...	...	...	24	153.7	S.	15.3
13	...	...	...	...	...	...	...	7	45.2	17	60.8	...	...	...	...	..	...	24	106.0	S.	8.4
14	...	..	...	...	...	...	...	2	15.6	19	190.1	3	8.0	...	...	...	...	24	213.7	S.	17.6
15	...	...	...	...	...	...	...	...	...	20	189.5	4	37.8	...	...	...	...	24	227.3	S.	16.7
16	1	...	...	1	26.8	1	12.2	3	29.8	10	37.1	1	8.3	3	13.3	4	11.1	24	138.6	N. E.	* 26.8
17	...	...	...	...	...	...	...	6	26.5	8	31.8	..	...	7	20.6	3	6.7	24	85.6	S. E.	5.6
18	1	...	...	...	...	...	...	1	6.3	21	122.9	1	2.2	..	...	...	...	24	131.4	S.	15.6
19	...	...	...	...	...	...	...	3	17.4	7	55.3	7	17.0	6	6.9	1	3.4	24	100.0	S.	12.5
20	...	3	24.7	6	63.1	7	66.9	1	5.7	...	...	...	...	...	...	7	19.7	24	180.1	N. E.	15.3
21	...	8	44.4	9	57.5	7	67.4	...	...	...	...	...	...	...	...	...	...	24	169.3	E.	11.4
22	...	8	34.0	6	12.7	7	23.9	3	5.2	...	...	...	...	...	...	...	...	24	75.8	N.	7.3
23	1	...	..	...	...	...	...	9	34.5	9	62.4	5	17.9	...	...	...	...	24	114.8	S.	11.0
24	1	1	2.5	1	2.5	...	...	3	11.6	9	39.0	4	27.3	5	2.5	...	...	24	85.4	S.W.	8.8
25	...	...	...	5	29.0	...	...	4	26.4	15	116.8	...	...	...	...	...	...	24	172.2	S.	13.5
26	...	...	...	...	...	...	...	..	...	20	192.6	4	34.4	...	...	...	...	24	227.0	S.	17.2
27	3	...	...	...	...	...	...	5	35.3	9	35.2	3	5.8	1	2.2	3	7.9	24	86.4	S.	9.9
28	2	4	18.6	...	...	...	...	...	...	9	85.8	5	49.1	3	3.2	1	10.3	24	166.8	S.W.	18.7
29	...	7	42.4	10	83.8	7	66.5	...	...	...	...	...	...	...	...	...	...	24	192.7	E.	12.8
30	...	10	67.0	1	7.[illegible]	10	78.9	3	22.4	...	...	...	...	...	...	...	...	24	176.0	E.	9.6
31	...	1	3.1	...	...	...	...	6	41.4	9	89.9	...	...	...	...	8	28.9	24	163.3	S.	15.0
計合 Sums.	9	69	405.6	99	736.4	75	59[illegible].4	138	1095.1	258	2093.3	42	232.6	25	48.7	29	95.7	744	5305.8	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	N. E.	26.8

濕氣百分數
HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	88	90	78	64	59	75	93	95
2	99	95	85	76	66	68	76	94
3	93	95	89	76	58	79	87	89
4	89	93	83	83	81	88	90	89
5	92	98	88	88	85	89	94	89
6	90	88	77	69	76	91	85	90
7	95	98	81	63	61	70	79	93
8	95	93	75	76	82	93	96	98
9	98	98	72	61	67	78	93	94
10	94	88	76	67	71	80	95	95
11	96	95	77	66	59	72	92	97
12	96	98	77	62	63	71	92	94
13	98	99	85	73	65	72	88	96
14	98	98	78	67	63	77	92	91
15	92	93	68	62	66	73	89	96
16	98	98	75	69	81	97	97	97
17	95	95	77	68	64	71	89	91
18	97	98	84	70	70	80	92	95
19	100	98	83	67	75	77	90	96
20	98	97	65	66	76	80	83	86
21	92	89	84	69	66	77	81	91
22	96	96	75	78	76	73	83	90
23	91	93	72	71	64	75	88	95
24	99	100	83	76	67	75	87	95
25	95	94	81	69	58	76	87	93
26	95	96	71	66	67	81	86	94
27	94	99	83	71	68	77	80	89
28	100	96	76	58	65	78	96	94
29	76	74	70	59	68	76	85	91
30	93	92	72	60	57	70	78	82
31	98	99	80	73	71	75	88	89
平均 Means.	95	95	78	69	68	78	88	93

日次 Date.	水氣張力 ELASTIC FORCE OF VAPOUR.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.713	0.731	0.731	0.668	0.675	0.749	0.796	0.799
2	0.804	0.796	0.785	0.810	0.834	0.728	0.692	0.766
3	0.785	0.749	0.761	0.801	0.766	0.818	0.796	0.799
4	0.801	0.815	0.851	0.851	0.883	0.897	0.894	0.857
5	0.874	0.826	0.848	0.897	0.903	0.877	0.903	0.863
6	0.857	0.848	0.843	0.829	0.883	0.897	0.812	0.815
7	0.846	0.829	0.883	0.799	0.785	0.766	0.764	0.829
8	0.807	0.801	0.774	0.854	0.918	0.894	0.909	0.888
9	0.877	0.885	0.837	0.854	0.854	0.834	0.834	0.840
10	0.880	0.848	0.832	0.846	0.874	0.826	0.865	0.829
11	0.823	0.801	0.815	0.820	0.738	0.756	0.807	0.815
12	0.807	0.751	0.793	0.774	0.812	0.766	0.779	0.772
13	0.733	0.692	0.788	0.894	0.837	0.820	0.848	0.829
14	0.848	0.857	0.854	0.848	0.823	0.820	0.863	0.848
15	0.818	0.785	0.796	0.823	0.840	0.820	0.857	0.843
16	0.793	0.832	0.918	0.909	0.877	0.769	0.838	0.711
17	0.694	0.692	0.751	0.863	0.815	0.790	0.815	0.848
18	0.815	0.826	0.863	0.834	0.897	0.877	0.930	0.903
19	0.912	0.891	0.946	0.894	0.968	0.863	0.915	0.885
20	0.857	0.834	0.761	0.832	0.888	0.793	0.749	0.749
21	0.754	0.716	0.706	0.694	0.666	0.692	0.659	0.697
22	0.694	0.716	0.728	0.731	0.731	0.716	0.769	0.777
23	0.766	0.779	0.779	0.837	0.796	0.774	0.799	0.854
24	0.779	0.733	0.826	0.930	0.903	0.906	0.846	0.883
25	0.883	0.840	0.851	0.863	0.756	0.832	0.846	0.885
26	0.820	0.785	0.810	0.812	0.840	0.865	0.843	0.846
27	0.846	0.818	0.894	0.915	0.921	0.909	0.877	0.865
28	0.900	0.885	0.897	0.829	0.903	0.900	0.857	0.793
29	0.596	0.580	0.675	0.678	0.708	0.678	0.664	0.646
30	0.635	0.628	0.635	0.607	0.624	0.626	0.628	0.630
31	0.675	0.675	0.687	0.697	0.711	0.635	0.718	0.728
平均 Means.	0.797	0.782	0.804	0.816	0.819	0.803	0.809	0.810

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	69.2	69.9	69.9	67.3	67.6	70.6	72.4	72.5
2	72.7	72.4	72.0	72.9	73.8	69.8	68.3	71.3
3	72.0	70.6	71.1	72.6	70.1	73.2	72.4	72.5
4	72.6	73.1	74.4	74.4	75.5	76.0	75.9	74.6
5	75.2	73.5	74.3	76.0	76.2	75.3	76.2	74.8
6	74.6	74.3	74.1	73.6	75.5	76.0	73.0	73.1
7	74.2	73.6	75.5	72.5	72.0	71.3	71.2	73.6
8	72.8	72.6	71.6	74.5	76.7	75.9	76.4	75.7
9	75.3	75.6	73.9	74.5	74.5	73.8	73.8	74.0
10	75.4	74.3	73.7	74.2	75.2	73.5	74.9	73.6
11	73.4	72.6	73.1	73.3	70.2	70.9	72.8	73.1
12	72.8	70.7	72.3	71.6	73.0	71.3	71.8	71.5
13	70.0	68.3	72.1	75.9	73.9	73.3	74.3	73.6
14	74.3	74.6	74.5	74.3	73.4	73.3	74.8	74.3
15	73.2	72.0	72.4	73.4	74.0	73.3	74.6	74.1
16	72.3	73.7	76.7	76.4	75.3	71.4	70.2	69.1
17	68.4	68.3	70.7	74.8	73.1	72.2	73.1	74.3
18	73.1	73.5	74.8	73.8	76.0	75.3	77.1	76.3
19	76.5	75.8	77.6	75.9	78.3	74.8	76.6	75.6
20	74.6	73.8	71.1	73.7	75.7	72.3	70.6	70.6
21	70.8	69.3	68.9	68.4	67.2	68.3	66.9	68.5
22	68.4	69.3	69.8	69.9	69.9	69.3	71.4	71.7
23	71.3	71.8	71.8	73.9	72.4	71.6	72.5	74.5
24	71.8	70.0	73.5	77.1	76.2	76.3	74.2	75.5
25	75.5	74.0	74.4	74.8	70.9	73.7	74.2	75.6
26	73.3	72.0	72.9	73.0	74.0	74.9	74.1	74.2
27	74.2	73.2	75.9	76.6	76.8	76.4	75.3	74.9
28	76.1	75.6	76.0	73.6	76.2	76.1	74.6	72.3
29	64.0	63.2	67.6	67.7	69.0	67.7	67.1	66.3
30	65.8	65.5	65.8	64.5	65.3	65.4	65.5	65.6
31	67.6	67.6	68.1	68.5	69.1	65.8	69.4	69.8
平均 Means.	72.3	71.8	72.6	73.0	73.1	72.5	72.8	72.5

明治二十年八月

AUGUST. 1887.

寒暑鍼

THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	73.0	73.0	77.2	80.9	83.1	79.0	74.3	73.9
2	73.0	73.9	76.8	81.1	86.5	81.5	76.3	73.0
3	72.9	71.8	74.5	81.0	86.5	80.2	76.3	76.1
4	76.0	75.5	80.1	80.1	81.8	80.2	79.5	78.0
5	77.7	74.2	77.2	80.2	81.2	79.0	78.2	78.2
6	77.8	78.5	82.1	85.0	83.8	79.0	77.9	76.2
7	75.9	74.3	81.8	86.6	86.8	82.0	78.0	76.0
8	74.5	75.0	80.0	82.8	82.9	78.3	77.8	76.5
9	76.0	76.3	83.7	89.2	86.3	81.2	76.2	76.0
10	77.4	78.0	82.0	86.0	85.4	80.2	76.6	75.3
11	74.8	74.0	81.0	85.8	86.2	81.2	75.2	74.0
12	74.0	71.6	80.2	86.1	86.9	81.8	74.2	73.2
13	70.5	68.7	76.9	85.3	87.0	83.3	78.0	75.0
14	75.0	75.3	81.7	86.8	87.2	81.2	77.5	77.0
15	75.8	74.0	84.0	87.8	86.8	82.9	78.0	75.5
16	73.0	74.4	85.2	87.9	81.8	72.5	71.3	70.0
17	69.8	69.9	78.7	86.8	86.3	81.7	76.5	75.5
18	74.0	74.2	80.3	84.5	87.0	82.1	79.6	78.0
19	76.5	76.5	83.6	88.4	87.5	82.8	80.0	77.1
20	75.5	74.8	84.0	86.0	84.0	78.9	76.0	75.0
21	73.2	73.0	74.1	79.3	79.5	76.0	73.0	71.2
22	69.5	70.5	78.1	77.0	77.9	78.5	77.0	74.8
23	74.0	74.0	81.8	84.2	85.8	80.0	76.2	76.2
24	72.2	70.0	79.3	86.5	88.6	84.8	78.1	77.2
25	77.2	75.9	80.7	86.0	87.3	82.0	78.6	78.0
26	75.0	73.2	83.2	85.2	86.0	81.2	78.7	76.1
27	76.2	73.7	81.7	87.2	88.5	84.2	79.0	78.3
28	76.3	77.0	84.1	90.2	89.4	83.7	76.0	74.0
29	72.1	72.1	78.0	83.0	80.6	75.7	72.0	69.2
30	68.0	68.0	75.7	79.3	82.0	76.2	73.0	71.5
31	68.1	68.0	74.7	77.7	79.4	75.8	73.2	73.5
平均 Means.	74.0	73.5	80.1	84.4	84.8	80.2	76.5	75.1

皶雨風正改

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	時三前午 3 A. M.	時六前午 6 A. M.	時九前午 9 A. M.	午正 Noon.	時三後午 3 P. M.	時六後午 6 P. M.	時九後午 9 P. M.	子正 Midnight.
	in	in	in	in	in	in	in	in
1	29.934	29.951	29.956	29.938	29.929	29.915	29.957	29.938
2	29.919	29.945	29.918	29.896	29.863	29.851	29.884	29.864
3	29.862	29.851	29.842	29.808	29.751	29.731	29.764	29.733
4	29.702	29.692	29.695	29.672	29.632	29.641	29.681	29.693
5	29.687	29.706	29.736	29.732	29.730	29.727	29.791	29.808
6	29.785	29.799	29.834	29.849	29.847	29.860	29.911	29.922
7	29.925	29.949	29.965	29.951	29.937	29.938	29.987	29.989
8	29.973	29.986	29.992	29.970	29.928	29.965	29.995	29.983
9	29.971	29.998	29.988	29.957	29.915	29.926	29.952	29.943
10	29.922	29.948	29.971	29.960	29.944	29.943	29.972	29.968
11	29.961	29.981	29.993	29.976	29.969	29.941	29.978	29.986
12	29.975	30.000	29.997	29.983	29.942	29.934	29.960	29.982
13	29.962	29.973	29.988	29.961	29.936	29.933	29.986	29.964
14	29.961	29.981	30.000	29.973	29.954	29.942	29.983	29.978
15	29.992	30.006	30.016	29.967	29.928	29.922	29.975	29.974
16	29.954	29.974	29.938	29.938	29.886	29.954	29.926	29.902
17	29.845	29.864	29.861	29.833	29.767	29.750	29.758	29.733
18	29.708	29.680	29.683	29.640	29.600	29.596	29.648	29.629
19	29.601	29.598	29.602	29.579	29.511	29.529	29.578	29.600
20	29.593	29.665	29.710	29.716	29.722	29.757	29.835	29.862
21	29.873	29.901	29.947	29.948	29.957	29.972	30.018	30.029
22	30.009	30.011	30.011	29.986	29.965	29.963	29.980	29.984
23	29.947	29.961	29.967	29.944	29.910	29.915	29.960	29.941
24	29.937	29.973	29.968	29.944	29.908	29.915	29.950	29.956
25	29.958	29.974	29.982	29.950	29.906	29.892	29.914	29.876
26	29.849	29.833	29.831	29.774	29.718	29.696	29.738	29.729
27	29.717	29.721	29.727	29.689	29.661	29.665	29.687	29.686
28	29.681	29.693	29.692	29.652	29.602	29.613	29.684	29.781
29	29.735	29.796	29.846	29.858	29.847	29.875	29.933	29.939
30	29.949	29.968	30.009	29.989	29.952	29.959	30.035	30.031
31	30.016	30.031	30.037	30.024	29.992	29.998	30.043	30.030
均平 Means.	29.868	29.881	29.894	29.873	29.842	29.846	29.886	29.883

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32° F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暑鍼 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點温度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat. = 100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.940	29.957	29.915	76.8	86.5	72.1	69.9	0.733	80	153.2	113.3	67.1
2	29.893	29.945	29.851	77.8	88.2	72.0	71.7	0.777	82	158.0	118.0	67.3
3	29.793	29 862	29.731	77.4	87.2	71.1	71.8	0.781	84	155.2	116.2	68.0
4	29.677	29.702	29.632	78.9	83.7	74 4	74.6	0.856	87	142.5	107.2	69.2
5	29.739	29.803	29.687	78.2	81.9	74.1	75.2	0.874	90	129.0	99.3	70.0
6	29.851	29 922	29.785	80.0	85.9	75.8	74.3	0.848	83	151.7	111.1	69.8
7	29.955	29.989	29.925	80.2	88.3	73.6	73.0	0.813	80	150.6	112.1	70.0
8	29.974	29.995	29.928	78.5	86.5	73.2	74.5	0.856	89	146.0	109.1	69.9
9	29.956	29.998	29.915	80.6	90.0	75.2	74.4	0.852	83	157.5	114.0	71.0
10	29.954	29.972	29.922	80.1	86.6	75.0	74.4	0.850	83	151 3	109.0	70.0
11	29.973	29.993	29.941	79.0	88 0	73.1	72.4	0.797	82	152.0	110.9	67.3
12	29 972	30.000	29.934	78.5	88.2	71.2	71.9	0.782	82	155.6	113.2	65.6
13	29.963	29 988	29.933	78.1	88.2	68.1	72.7	0.805	85	155.0	116.9	* **62.7**
14	29.972	30.000	29.942	80.2	88.4	74.0	74.2	0.845	83	153.2	112.0	68.8
15	29.973	30.016	29.922	80.6	89.6	73.2	73.4	0.823	80	154.2	114.0	68.4
16	29.934	29.974	29.886	77.0	89.7	69.0	73.1	0.818	89	150.9	113.3	64.4
17	29.801	29.864	29.733	78.2	87.7	68.5	71.9	0.784	81	148.5	111.8	64.0
18	29.648	29.708	29.596	80.0	88.3	73.1	75.0	0.869	86	155.4	113.0	69.2
19	29.575	29 602	* **29.499**	81.6	89.7	75.2	76.4	0.909	86	* **163 9**	* **117.9**	71.9
20	29.733	29 862	29.593	79.3	88.7	74.0	72.8	0.808	81	155.0	11.35	68.0
21	29.956	30.029	29.873	74.9	81.7	71.0	68.5	0.698	81	157.7	114.0	66.0
22	29.989	30.011	29.963	75.4	78.7	69.2	70.0	0.733	83	120.0	95.0	63.5
23	29.943	29.967	29.910	79.0	86.3	73.0	72.5	0.798	81	156.7	111.9	69.0
24	29.944	29.973	29.908	79.6	90.2	69.5	74.3	0.851	85	159.2	112.5	64.5
25	29.932	29.982	29.876	80.7	89.2	75.0	74.1	0.845	82	149.0	112.7	73.3
26	29.771	29.849	29.696	79.8	87.6	72.5	73.6	0.828	82	151.9	110.4	65.0
27	29.694	29.727	29.661	81 1	89.6	73.2	75.4	0.881	84	152.9	113.5	66.8
28	29.669	29.731	29.602	81.3	* **92 1**	70.8	75.1	0.871	83	148.9	112.0	65.7
29	29.854	29.939	29.735	75.3	84.8	68.9	66.6	0.653	75	154.0	110.3	63.5
30	29.987	30.035	29 949	74.2	82.7	* **67.0**	65.4	0.627	76	152.0	108.8	63.0
31	30.021	* **30.043**	29.992	73.8	8.17	67.5	68.2	0.691	84	146.1	109.0	63.8
平均 Means.	29.872	...	...	78.6	...	...	72.6	0.805	83	...	...	...
至極 Max. & Min.	...	30.043	29.499	...	92.1	67.0	...	...	...	163.9	117.9	62.7

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Beckley's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

観象臺長	海軍五等技師	中川將行 閲
観測士	海軍六等技師	伊藤直温
観測助手	海軍属	嘉納謙作
同	海軍属	日比翁助
同	海軍属	白井正信
同	海軍八等技手	小澤兼藏
同	海軍十等技手	永江董

(Signed) Director.

M. Nakagawa.

Observer.

N. Itō.

Assistant.

„ K. Kanō.

„ O. Hibi.

„ M. Shirai.

„ K. Ozawa.

„ T. Nagaye.

REMARKS.

Day.	
1	R. till 6 a.m.; *d.*; C. after 3 p.m.
2	C.; R. after 7 a.m.; E. at 3.15 p.m.
3	R.; C. after 5 p.m.
4	C.; R. at 2 a.m.; *f.p.* after 3 p.m.
5	*fp.* till 8 a.m.; B.C.; *d.* in night.
6	C.; R. 6 a.m.—7 p.m.; *d.* after 7 p.m.
7	*d.*, *f.p.* after 6 a.m.
8	C. in a.m.; *d.* in p.m.
9	*d.* in a.m.; D at 6.40 a.m.; B. in p.m.
10	C. in a.m.; *d.*; with B at times in p.m.; L. to the S.E. at 8 p.m.
11	*d.* in a.m.; C. in p.m.; *f.p.* after 6 p.m.; E. at 3.07 p.m.
12	C.; dense F. in morning; R. 2.50—10.50 p.m.; S. w_3 in night.
13	*d.* in a.m.; C. in p.m.; R. at times after 2 p.m.; T. at 2 a.m. and 3 p.m.
14	C., with R. at times.
15	BC. in day; C., whith R. at times in night; S. w_3 in day
16	*d.*, with B at times; D at 4 a.m. & 6 p.m.; S. w_3 till 5 p m.
17	*d.*; S. w_3.
18	*d.*; R., with T. at times after 3 p.m.; *r.b.* at 6 p.m.; R. ceased at 9 p.m.; C.
19	C.
20	*d.* in a.m.; B. in p.m.
21	B.C. in a.m.; *f.p.* in p.m.
22	*d.*; dense F. in morning; B.C. in p.m.; *f.p.* after 8 p.m.; E. at 8. 24 p.m.
23	*d.* in a.m.; B. in p.m.
24	B. in day; *f.p.* in night.
25	B.
26	*f.p*; *d.* at 6 a.m.
27	*f.p.* in a.m.; B. in p.m.
28	B.C. in a.m. B. in p.m.; T. at 1 p.m.
29	*f.d.* in a.m.; R. 5.30—8 a.m.; B. with *d.* at times in p.m.; R. at 10 p.m.
30	B., with *d.* at times.
31	*d.* in a.m.; B.C. in p.m.; C. in night.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1 = slight, w_5 = strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日　午前六時頃マテ降雨後薄陰午後三時後陰
二日　午前七時頃マテ陰後降雨　午前三時十五分頃地震ス
三日　降雨午後五時頃ヨリ陰
四日　陰午前二時過暫時降雨午後三時頃ヨリ漸々快晴
五日　午後八時頃マテ快晴爾後半晴夜來薄陰
六日　陰午前六時頃ヨリ降雨午後七時頃歇ミ後薄陰
七日　午前六時頃マテ薄陰爾後快晴
八日　午前陰午後薄陰
九日　午前薄陰同六時四十分頃暫時疎雨午後漸々晴
十日　午前陰午後薄陰時々晴同八時過南東ニ電光アリ
十一日　午前薄陰午後陰同六時頃ヨリ漸々快晴　午後三時七分頃地震ス
十二日　陰朝霧濃厚午後二時五十分ヨリ同十時五十分マテ降雨夜ニ入リ南風強
十三日　午前薄陰午後陰同二時過ヨリ時々降雨午前二時及午後三時頃雷鳴セリ
十四日　陰天時々降雨
十五日　晝間半晴夜間陰時々降雨終日南強風
十六日　薄陰時々晴午前四時頃及午後六前頃暫時疎雨降ル午後五時頃マテ南強風
十七日　薄陰南風強シ
十八日　薄陰午後三時頃ヨリ降雨時々雷鳴シ同六時頃斷虹ヲ現シ同九時頃雨歇ミ爾後陰
十九日　晝夜陰天
二十日　午前薄陰午後漸々晴
廿一日　午前半晴午後快晴
廿二日　午前薄陰朝霧濃厚午後半晴同八時頃ヨリ快晴　午後八時二十四分頃地震ス
廿三日　午前薄陰午後晴
廿四日　晝間晴夜間快晴
廿五日　晴
廿六日　快晴午前六時頃暫時薄陰
廿七日　午前快晴午後晴
廿八日　午前半晴午後晴同一時頃雷鳴ス
廿九日　午前薄晴同五時三十分頃ヨリ同八時過マテ降雨午後晴時々薄陰同十頃頃暫時復降雨
三十日　晴時々薄陰
卅一日　午前薄陰午後半晴夜來陰

地平磁氣力
HORIZONTAL INTENSITY.

5th Beginning 3h 45m / Ending 4 57 time P. M.　　五日午後三時四十五分ヨリ同四時五十七分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	視閱度 Circle — Readings. No.	A	B	Mean.	No.	A	B	Mean
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	301 19 00	18 20	18 40				
	W.					2	294 50 30	49 50	50 10
	E.	3	301 19 00	18 10	18 35				
	W.					4	294 50 50	50 10	50 30
	E.	5	301 18 40	18 00	18 20				
平均		Means	301° 18′ 31″.7				294° 50′ 20″.0		
西 West.	W.					6	294 48 00	47 20	47 40
	E.	7	301 14 20	13 40	14 00				
	W.					8	294 48 20	47 40	48 00
	E.	9	301 14 40	14 40	14 20				
	W.					10	294 48 20	47 40	48 00
平均		Means.	301° 14′ 10″.0				294° 47′ 53″.3		

平均溫度 Mean Temperature $t = 76^\circ.0$ fah.
偏針角 Angle of Deflection $u = 3^\circ\ 13'\ 37''.1$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.			溫度 Temp.	尺度兩端之視閱數 Extreme. Scale-readings.		百振之時 Time of 100 Oscillations.	
	h	m	s	°			m	s
0	4	43	25.7	75.9	6.3	53.7		
10		44	11.0					
20		44	55.9					
31		45	45.1					
41		46	30.1					
51		47	15.3					
100		50	56.0				7	30.3
110		51	41.0					30.0
120		52	25.7					29.8
131		53	15.6					30.5
141		54	0.7					30.6
151		54	45.5	76.0	17.2	42.4		30.2
平均 Means.				76.0				30.23

物捩差 Mean effect of 90° of Torsion $v = 1.79$
時儀日差 Daily rate $s = 3^s.19$ losing.

成果 Resulting absolute value $X = 6.3309$

20th Beginning 4h 40m / Ending 6 0 time P. M.　　二十日午後四時四十分ヨリ同六時零分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	視閱度 Circle — Readings. No.	A	B	Mean.	No.	A	B	Mean.
			° ′ ″	′ ″	′ ″		° ′ ″	′ ″	′ ″
東 East.	E.	1	174 1 20	0 40	1 00				
	W.					2	167 32 20	31 40	32 00
	E.	3	174 1 20	0 40	1 00				
	W.					4	167 32 40	32 00	32 20
	E.	5	174 1 40	1 00	1 20				
平均		Means.	174° 1′ 6″.67				167° 32′ 10.″0		
西 West.	W.					6	167 32 30	31 40	32 05
	E.	7	173 57 40	57 00	57 20				
	W.					8	167 32 30	31 40	32 05
	E.	9	173 58 00	57 20	57 40				
	W.					10	167 32 30	31 40	32 05
平均		Means.	173° 57′ 30″.0				167° 32′ 5″.0		

平均溫度 Mean Temperature $t = 85.^\circ 0$ fah.
偏針角 Angle of Deflection $u = 3^\circ\ 13'\ 35.''4$.

搖振時 Oscillations.

振數 No. of Osc.	測時 Time.			溫度 Temp.	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations.	
	h	m	s	°			m	s
0	5	48	5.5	84.5	4.3	55.2		
10		48	50.3					
20		49	35.0					
31		50	24.8					
41		51	10.0					
51		51	55.1					
100		55	35.8				7	30.3
110		56	20.9					30.6
120		57	6.0					31.0
131		57	55.6					30.8
141		58	40.5					30.5
151		59	25.5	83.5	15.5	43.0		30.4
平均 Means.				84.0			7	30.60

物捩差 Mean effect of 90° of Torsion $v = 1.86$
時儀日差 Daily rate $s = 1^s.01$ gaining.

成果 Resulting absolute value $X = 6.3258$

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差 Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 7.5	5	4 6.5	9	4 7.5	13	4 9.3	17	4 9.3	21	4 6.3	25	4 5.2	29	4 4.2
2	4 5.0	6	4 4.1	10	4 6.6	14	4 8.6	18	4 6.2	22	4 5.2	26	4 5.3	30	4 4.1
3	4 6.9	7	4 9.3	11	4 7.7	15	4 7.7	19	4 9.5	23	4 5.3	27	4 3.9	31	4 4.9
4	4 5.3	8	4 8.4	12	4 7.8	16	4 8.4	20	4 6.8	24	4 4.0	28	4 5.4		

平均 Mean = 4° 6.′52

磁氣傾差 Magnetic Inclination.

5th. Beginning time 5^h 33^m / Ending 5 55 P. M. 五日午後五時三十三分ヨリ同時五十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 43	49 42	50 47	50 47	48 5	48 2	49 40	49 35	49 34	49 37	48 13	48 15	50 18	50 17	50 28	50 29
49 44	49 44	50 45	50 45	48 9	48 5	49 41	49 36	49 37	49 41	48 11	48 15	50 22	50 22	50 28	50 29
49 43.5	49 43.0	50 46.0	50 46.0	48 7.0	48 3.5	49 40.5	49 35.5	49 35.5	49 39.0	48 12.0	48 15.0	50 20.0	50 19.5	50 28.0	50 29.0
49 43.2		50 46.0		48 5.2		49 38.0		49 37.3		48 13.5		50 19.7		50 28.5	
50 14.6				48 51.6				48 55.4				50 24.1			
49 33.1								49 39.7							

成果 Resulting Dip = 49° 36.′4

20th. Beginning time 6^h 12^m / Ending 6 35 P. M. 二十日午後六時十二分ヨリ同時三十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 59	49 57	49 31	49 29	49 45	49 44	49 33	49 29	49 46	49 48	49 15	49 18	49 56	49 58	49 33	49 35
49 57	50 1	49 33	49 29	49 46	49 44	49 32	49 28	49 49	49 51	49 16	49 19	49 49	49 51	49 34	49 36
49 58.0	49 59.0	49 32.0	49 29.0	49 45.5	49 44.0	49 32.5	49 28.5	49 47.5	49 49.5	49 15.5	49 18.5	49 52.5	49 5[illegible].5	49 33.5	49 35.5
49 58.5		49 30.5		49 44.7		49 30.5		49 48.5		49 17.0		49 53.5		49 34.5	
49 44.5				49 37.6				49 32.8				49 44.0			
49 41.1								49 38.4							

成果 Resulting Dip = 49° 39.′7

天候
WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	靄霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	1	...	3	...	2	...	2	...	...	...	8.9	0.06
2	...	...	...	...	...	2	...	6	...	...	...	10.0	0.03
3	...	1	...	...	1	1	...	5	...	...	...	10.0	1.05
4	...	1	1	...	...	3	...	1	...	...	2	6.1	0.05
5	...	2	...	2	3	...	...	...	...	...	1	5.8	...
6	...	...	2	2	...	...	...	4	...	...	...	9.5	...
7	1	2	...	2	3	...	...	...	...	...	...	3.1	0.54
8	...	...	3	1	2	2	...	...	...	...	...	9.0	...
9	1	2	...	1	1	2	...	...	...	...	1	6.4	...
10	...	...	1	5	...	2	...	...	...	...	...	9.5	...
11	...	...	...	1	5	...	...	...	...	...	2	5.9	...
12	...	...	3	1	...	...	...	3	...	1	...	8.9	...
13	...	...	2	3	1	...	1	...	...	...	...	8.9	1.02
14	...	1	2	...	...	2	...	3	...	...	...	9.5	0.10
15	1	1	1	4	...	...	...	2	...	...	...	7.8	0.02
16	...	1	2	4	1	...	...	...	...	...	...	7.1	0.06
17	...	...	2	7	...	...	1	...	...	...	...	8.6	...
18	1	...	6	3	1	...	...	1	...	...	...	9.3	...
19	...	...	...	1	...	1	...	...	...	...	...	10.0	0.14
20	1	...	2	2	1	...	1	...	...	...	1	5.9	...
21	1	...	...	1	4	1	...	...	...	...	1	5.1	...
22	2	...	1	1	1	...	...	...	...	1	2	5.3	...
23	...	2	1	...	1	2	...	...	...	...	2	3.9	...
24	...	...	1	2	3	...	...	...	...	...	2	2.4	...
25	...	...	...	4	1	...	...	...	...	...	3	2.5	...
26	...	...	1	2	2	1	...	...	...	...	2	2.9	...
27	...	2	...	3	2	...	...	...	...	...	1	3.3	...
28	1	...	...	5	2	...	...	...	...	...	...	4.5	...
29	...	2	1	2	2	...	...	1	...	...	...	6.4	0.39
30	1	1	...	4	2	...	...	...	...	...	...	3.8	0.02
31	...	...	2	3	...	3	...	...	...	...	...	6.5	...
合計 Sums.	10	19	34	69	39	24	3	28	...	2	20	...	3.48
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	6.7	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	7	79.0	5	48.2	...	...	3	34.0	9	121.2	...	...	...	...	...	...	24	282.4	S	17.9
2	...	6	46.9	13	110.3	...	...	...	...	4	40.5	...	...	1	4.1	...	..	24	201.8	S.	13.9
3	...	12	118.9	9	60.3	...	...	...	...	...	...	...	...	...	...	3	28 7	24	207.9	N.	11.7
4	...	...	...	16	126.6	8	66.9	..	...	...	...	...	...	...	...	...	...	24	193.5	N. E.	11.9
5	...	6	36.4	18	154.5	...	...	...	...	...	...	...	...	...	...	...	...	24	190.9	N. E	10.4
6	...	9	119.8	8	69.0	..	...	..	...	...	...	...	...	...	...	7	91.7	24	280.5	N.W.	17.6
7	...	..	...	...	...	...	...	6	48.9	10	93.2	...	...	3	6.0	5	14.9	24	163.0	S.	15.7
8	...	6	16.2	....	...	...	...	4	28.8	12	98.9	...	...	2	4.4	...	...	24	148.0	S.	12.9
9	...	...	...	...	...	...	...	14	62.3	8	23.2	1	2.6	...	...	1	2 0	24	90.1	S. E.	8.0
10	1	2	14.3	2	15.0	5	61.3	11	47.7	2	14.6	..	...	...	...	1	6.6	24	159.5	E.	16.8
11	...	...	...	...	..	...	...	8	50.1	8	48.2	...	...	2	3.5	6	17.3	24	119.1	S.	12.6
12	7	...	...	...	...	...	...	2	27.0	12	190.7	2	26.7	1	1.5	...	...	24	245 9	S.	31.0
13	...	2	20.6	...	...	1	4.1	2	14.2	3	19 2	11	52.1	2	7.0	3	10.6	24	127.8	N.	16.6
14	...	..	...	...	...	...	...	4	28.9	10	56.2	5	22.6	...	...	5	9.6	24	117.3	S.	11.7
15	...	..	...	...	...	..	...	...	...	24	508.4	...	...	...	...	...	...	24	508.4	S.	30.8
16	...	...	...	...	...	...	...	...	...	18	246.3	6	98.7	...	...	..	...	24	345 0	S.	24 8
17	...	...	...	...	...	...	...	...	...	24	463.8	..	...	...	...	..	...	24	463.8	S.	* 31.8
18	...	...	...	...	...	...	...	...	...	14	201.1	7	55.7	2	8.7	1	2.2	24	267.7	S.	20.3
19	...	...	...	...	...	...	...	...	...	15	146.6	2	2 8	...	...	7	9.0	24	158.4	S.	14.0
20	...	...	...	...	...	...	...	5	47.9	9	65.1	10	54.5	...	...	...	...	24	167.5	S.	12.5
21	...	...	...	...	...	...	...	1	9.1	14	150.6	9	49.6	...	...	...	...	24	209.3	S.	16.5
22	...	...	...	...	...	...	...	3	20.5	16	107.8	...	...	3	8.9	2	5.7	24	142 9	S.	13.2
23	...	...	...	...	...	...	...	3	24.9	16	169.6	5	19.3	...	...	...	...	24	213.8	S.	16 7
24	...	..	...	..	...	...	...	1	9.7	22	168.5	1	10.8	...	...	...	...	24	189.0	S.	12 2
25	...	...	...	...	...	...	...	2	19.6	22	269.3	...	...	...	...	...	...	24	28.89	S.	20.2
26	...	...	...	..	...	...	...	2	34.6	21	243.7	1	4.0	...	...	...	...	24	282.3	S.	18.8
27	...	...	...	...	...	...	...	8	57.9	10	49 2	6	25.2	...	...	...	...	24	132.3	S.	9.7
28	...	4	25.9	10	100.0	2	23.8	..	...	...	...	1	0.6	2	6.0	5	21.3	24	177.7	E.	13.8
29	...	9	95.9	12	135.6	...	...	..	...	...	...	...	...	...	...	3	34.1	24	265.6	N. E.	17.6
30	...	..	...	8	18.4	...	...	6	44.4	10	92.2	...	...	...	...	...	...	24	155.0	S.	13.7
31	...	...	...	...	...	4	20.3	3	20.3	10	61.4	2	7.2	2	4.1	3	11.8	24	125.1	S. E.	8.7
計合 Sums.	8	63	573.9	101	837.9	20	176.4	88	630.8	323	3649.2	69	432.4	20	54.2	52	265.6	744	6620.4	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.	31.8

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	96	98	79	61	70	72	82	87
2	89	90	98	99	94	99	99	93
3	98	98	96	91	90	86	89	88
4	94	83	73	68	66	67	81	95
5	98	90	71	64	62	68	83	86
6	87	85	82	93	92	95	86	86
7	96	94	71	70	53	70	93	96
8	96	95	85	73	74	78	91	88
9	90	90	80	74	69	84	95	96
10	99	98	87	72	64	78	83	94
11	93	93	75	75	81	71	85	93
12	95	99	81	78	90	95	100	95
13	98	95	77	65	79	78	92	97
14	97	98	95	91	87	91	97	94
15	87	94	74	71	72	80	79	96
16	89	89	75	70	73	88	90	92
17	91	86	77	76	64	72	83	87
18	87	83	79	67	74	84	94	97
19	95	95	89	86	81	87	94	95
20	96	95	77	70	60	72	89	98
21	95	95	78	73	70	79	93	98
22	96	98	86	75	69	75	92	96
23	98	96	84	73	65	74	90	91
24	93	94	75	79	62	80	91	95
25	89	91	76	72	68	74	92	96
26	96	98	76	64	57	97	87	95
27	95	97	75	58	56	72	89	94
28	95	98	79	57	59	65	83	93
29	94	97	84	64	60	65	82	94
30	95	96	81	70	55	67	87	85
31	92	95	81	68	59	77	81	87
平均 Means.	94	94	81	73	70	78	89	93

明治二十年七月

JULY. 1887.

日次 Date.	水氣張力 ELASTIC FORCE OF VAPOUR.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.628	0.624	0.611	0.601	0.644	0.628	0.668	0.680
2	0.606	0.596	0.626	0.630	0.644	0.635	0.630	0.590
3	0.584	0.554	0.572	0.592	0.613	0.580	0.564	0.545
4	0.552	0.489	0.501	0.546	0.564	0.556	0.522	0.533
5	0.507	0.520	0.524	0.528	0.537	0.512	0.520	0.500
6	0.516	0.507	0.535	0.576	0.494	0.524	0.487	0.500
7	0.512	0.503	0.570	0.673	0.556	0.635	0.680	0.673
8	0.673	0.675	0.680	0.718	0.731	0.694	0.718	0.664
9	0.661	0.680	0.761	0.749	0.774	0.812	0.804	0.782
10	0.772	0.815	0.820	0.823	0.774	0.785	0.682	0.713
11	0.692	0.673	0.711	0.741	0.788	0.713	0.706	0.708
12	0.664	0.723	0.751	0.807	0.815	0.777	0.788	0.804
13	0.801	0.733	0.759	0.790	0.812	0.723	0.756	0.774
14	0.764	0.772	0.801	0.801	0.834	0.815	0.801	0.788
15	0.761	0.810	0.796	0.832	0.846	0.793	0.769	0.848
16	0.774	0.788	0.829	0.801	0.823	0.880	0.810	0.807
17	0.815	0.801	0.820	0.801	0.779	0.733	0.769	0.793
18	0.777	0.756	0.810	0.846	0.883	0.769	0.801	0.815
19	0.801	0.799	0.829	0.871	0.885	0.823	0.829	0.820
20	0.815	0.804	0.815	0.610	0.782	0.779	0.801	0.820
21	0.807	0.807	0.832	0.860	0.857	0.829	0.843	0.857
22	0.807	0.823	0.885	0.900	0.912	0.826	0.848	0.743
23	0.834	0.829	0.854	0.883	0.851	0.772	0.810	0.793
24	0.790	0.790	0.761	0.820	0.772	0.785	0.810	0.820
25	0.749	0.706	0.820	0.900	0.882	0.799	0.868	0.865
26	0.848	0.848	0.874	0.782	0.736	0.721	0.796	0.815
27	0.779	0.772	0.796	0.706	0.721	0.788	0.799	0.804
28	0.769	0.774	0.788	0.689	0.726	0.728	0.749	0.785
29	0.728	0.721	0.756	0.754	0.726	0.684	0.711	0.731
30	0.694	0.680	0.764	0.744	0.659	0.689	0.699	0.738
31	0.759	0.746	0.790	0.772	0.751	0.832	0.782	0.756
平均 Means.	0.719	0.713	0.743	0.753	0.747	0.730	0.736	0.741

度温點露

DEW POINT.

日次 Date.	時三前午 3 A. M.	時六前午 6 A. M.	時九前午 9 A. M.	午正 Noon.	時三後午 3 P. M.	時六後午 6 P. M.	時九後午 9 P. M.	子正 Midnight.
	°	°	°	°	°	°	°	
1	65.5	65.3	64.7	64.2	66.2	65.5	67.5	67.8
2	67.2	64.0	65.4	65.6	66.2	65.8	65.6	63.7
3	63.4	61.9	62.8	63.8	64.8	63.2	62.4	61.4
4	61.8	58.1	59.1	61.5	62.4	62.0	60.2	60.8
5	59.4	60.1	60.3	60.5	61.0	59.7	60.1	59.0
6	59.9	59.4	60.9	63.0	58.7	60.3	58.3	59.0
7	59.7	59.2	62.7	67.5	62.0	65.8	67.8	67.5
8	67.5	67.6	67.8	69.4	69.9	68.1	69.4	67.1
9	67.0	67.8	71.1	70.6	71.6	73.0	72.7	71.9
10	71.5	23.1	73.3	73.4	71.6	72.0	67.9	69.2
11	68.3	67.5	69.1	70.3	72.1	69.2	68.9	69.0
12	67.1	69.6	70.7	72.8	73.1	71.7	72.1	72.7
13	72.6	70.0	71.0	72.2	73.0	69.6	70.9	71.6
14	71.2	71.5	72.6	72.6	73.8	73.1	72.6	72.1
15	71.1	72.9	72.4	73.7	74.2	72.3	71.4	74.3
16	71.6	72.1	73.6	72.6	73.4	75.4	72.9	72.8
17	73.1	72.6	73.3	72.6	71.8	70.0	71.4	72.3
18	71.7	70.9	72.9	74.2	75.5	71.4	72.6	73.1
19	72.6	72.5	73.6	75.1	75.6	73.4	73.9	73.3
20	73.1	72.7	73.1	72.9	71.9	71.8	72.6	73.3
21	72.8	72.8	73.7	7.47	74.6	73.6	74.1	74.6
22	72.8	73.4	75.6	76.1	76.5	73.5	74.3	74.1
23	73.8	73.6	74.5	75.5	74.4	71.5	72.9	72.3
24	72.2	72.2	71.1	73.3	71.5	72.0	72.9	73.3
25	70.6	68.9	73.3	76.1	75.5	72.5	75.0	74.9
26	74.3	74.3	75.2	71.9	70.1	69.5	72.4	73.1
27	71.8	71.5	72.4	68.9	69.5	72.1	72.5	72.7
28	71.4	71.6	72.1	68.2	69.7	69.8	70.6	72.0
29	69.8	69.5	70.9	70.8	69.7	68.0	69.1	69.9
30	68.4	67.8	71.2	70.4	66.9	68.2	68.6	70.2
31	71.0	70.5	72.2	71.5	70.7	73.7	71.9	70.9
均平 Means.	69.2	68.9	70.1	70.5	70.3	69.6	69.8	70.0

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	66.8	66.0	71.7	78.5	76.9	75.0	73.2	71.8
2	70.9	66.7	66.1	66.0	68.0	66.2	66.0	64.4
3	63.9	62.6	64.1	66.5	68.0	67.3	65.6	65.0
4	63.6	63.6	67.9	72.8	74.2	73.8	66.3	62.3
5	60.2	63.2	70.0	73.5	75.1	70.7	65.5	63.3
6	63.8	64.0	66.7	65.2	61.0	62.0	62.9	63.6
7	60.8	60.9	72.8	77.9	79.8	76.5	70.0	68.7
8	68.7	69.2	72.7	78.6	78.8	75.5	72.0	71.0
9	70.2	71.0	77.6	79.5	82.8	78.6	74.1	72.9
10	71.9	74.0	77.5	83.2	85.1	79.5	73.6	71.0
11	70.3	69.5	77.5	78.9	78.5	79.5	73.8	71.2
12	68.5	70.0	76.8	80.2	76.2	72.9	72.1	73.9
13	73.1	72.4	79.0	85.0	80.0	76.7	73.3	72.5
14	72.1	72.0	74.0	75.2	77.9	75.8	73.6	73.8
15	75.0	74.9	81.5	84.0	84.0	78.9	78.0	75.8
16	75.0	75.5	82.2	83.6	83.0	79.3	76.0	75.4
17	76.0	77.0	81.3	81.0	85.0	80.1	77.0	76.4
18	76.0	76.5	79.9	86.2	84.5	76.5	74.3	74.1
19	74.0	74.0	77.0	80.0	81.9	77.5	75.6	75.0
20	74.5	74.2	81.0	83.7	87.0	81.8	76.0	74.0
21	74.2	74.5	81.2	84.2	85.3	80.6	76.5	75.1
22	74.0	74.1	80.3	84.8	88.2	82.3	76.8	75.3
23	74.3	75.0	80.0	85.0	87.5	80.2	76.0	75.0
24	74.1	73.9	79.5	84.5	86.0	78.8	75.8	75.0
25	73.8	71.8	81.5	86.0	86.6	81.8	77.5	76.3
26	75.5	75.2	83.5	85.4	87.0	81.7	76.1	74.8
27	73.2	72.4	81.3	85.2	86.7	81.9	76.1	74.7
28	72.8	72.3	79.2	85.0	85.8	82.8	76.2	74.0
29	71.5	70.0	76.0	83.9	85.0	81.0	75.0	71.6
30	70.0	69.0	77.3	81.3	84.9	80.0	73.0	75.0
31	73.4	72.1	78.1	83.2	86.8	81.7	78.0	75.0
平均 Means.	71.0	70.9	76.6	80.3	81.5	77.3	73.4	72.2

鍼雨風正改

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	時三前午 3 A. M.	時六前午 6 A. M.	時九前午 9 A. M.	午正 Noon.	時三後午 3 P. M.	時六後午 6 P. M.	時九後午 9 P. M.	子正 Midnight.
	in	in	in	in	in	in	in	in
1	29.701	29.720	29.738	29.751	29.765	29.799	29.864	29.875
2	29.881	29.920	29.938	29.971	29.947	29.925	29.922	29.877
3	29.861	29.889	29.928	29.937	29.938	29.951	30.000	30.007
4	30.013	30.041	30.067	30.059	30.025	30.018	30.067	30 073
5	30.049	30.054	30.072	30.052	30.017	30.016	30.035	30.007
6	29.968	29.948	29.924	29.904	29.881	29.840	29.850	29.850
7	29.847	29.883	29.910	29.900	29.867	29.854	29.891	29.900
8	29.912	29.917	29.935	29.915	29.867	29.855	29.859	29.843
9	29.825	29.832	29.845	29.813	29.773	29.742	29.771	29.778
10	29.802	29.791	29.801	29.774	29.753	29.722	29 799	29.819
11	29.803	29.789	29.793	29.773	29.752	29.740	29.770	29.765
12	29.748	29.779	29.793	29.786	29.761	29.711	29.644	29.685
13	29.681	29.735	29.768	29.778	29.782	29.778	29.872	29.861
14	29.848	29.873	29.872	29.856	29.827	29.824	29.833	29.803
15	29.752	29.710	29.739	29.714	29.699	29.679	29.716	29.719
16	29.705	29.740	29.761	29.735	29.726	29 744	29.774	29 768
17	29.743	29.759	29.746	29.746	29.726	29.730	29.787	29.771
18	29.743	29.762	29.764	29.786	29.775	29.817	29.839	29.859
19	29.855	29.875	29.873	29.858	29.840	29.861	29.889	29.902
20	29.899	29.916	29.940	29.926	29.893	29.908	29.954	29.935
21	29.936	29.940	29.970	29.956	29.924	29.920	29.955	29 952
22	29.949	29 973	29.979	29.972	29.952	29.957	29.908	29.982
23	29.999	30.013	30.022	30.011	29.973	29.962	29.981	29.988
24	29.961	29.985	30.000	29 958	29.924	29.931	29 949	29.961
25	29.962	29.985	29.993	29.966	29.946	29.953	29.986	29.995
26	30.011	30.036	30 040	30.026	30.011	30.024	30.051	30.058
27	30 051	30.056	30.061	30.042	29.999	29.982	30 038	30 010
28	29.970	29.976	29.985	29.950	29.914	29.889	29.934	29.896
29	29.879	29.879	29.836	29.842	29.803	29.785	29.825	29.812
30	29.783	29 801	29 818	29 809	29.782	29.782	29.852	29.858
31	29.851	29.880	29.902	29.884	29.868	29.874	29.924	29.932
均平 Means.	29.871	29.886	29.897	29.885	29.862	29.857	29.891	29.888

報月之測觀象氣

臺象觀軍海京東

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	鍼雨風正改 Barometer. Reduced to 32° F. & sea level.			鍼暑寒 Thermometer.			度温點露 均平 Mean Temp. of Dew point.	力張氣水 均平 Mean elastic force of Vapour.	數分百氣濕 均平 Mean Humidity (Sat.=100).	度温日中氣無 極高 Vacuum solar radiation Max.	度温日 極高 Solar radiation Max.	度温地 極低 Terrestrial radiation Min.
	均平 Mean.	極高 Max.	極低 Min.	均平 Mean.	極高 Max.	極低 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	29.777	29.875	29.701	72.5	80.5	65.1	65.8	0.636	81	153.8	114.0	63.0
2	29.923	29.971	29.877	66.8	72.0	63.8	65.4	0.627	96	91.4	80.1	61.9
3	29.939	30.007	29.861	65.4	68.9	61.8	63.0	0.576	92	107.1	81.2	60.2
4	30.045	* 30 073	30.013	68.1	74.8	61.8	60.8	0.533	78	147.0	106.3	55.9
5	30.038	30.072	30.007	67.7	76.2	59.4	60.0	0.519	78	143 0	109.2	54.7
6	29.896	29.968	29.840	63.7	68.2	60.5	59.9	0.517	88	100.2	79.0	56.9
7	29.882	29.910	29.847	70.9	81.5	* 58.9	64.0	0.600	80	152.0	111.2	* 51.2
8	29.888	29.935	29.843	73.3	80.0	67.7	68.4	0.694	85	150.8	111.9	62.0
9	29.797	29.845	29.742	75.8	84.7	67.8	70.7	0.758	85	155.3	* 121.1	64.0
10	29.783	29.819	29.722	77.0	86.8	70.6	71.5	0 773	84	* 160 0	116.0	67.0
11	29.773	29.803	29.740	74.9	80 5	68.0	69.3	0.717	83	156.6	113.6	63.5
12	29 738	29.793	* 29.644	73.8	80.0	67.1	71 2	0.766	92	135.7	99.0	60.1
13	29.782	29.872	29 681	76.5	85.6	71.5	71.4	0.769	85	155 0	113.5	67.8
14	29 843	29.873	29.803	74.3	78.3	71.1	72.4	0.797	94	123.1	95.9	70.2
15	29.716	29.752	29.679	79.0	86.2	72.7	72.8	0.807	82	152.5	106.3	69.5
16	29 744	29.774	29.705	78.8	85.5	73.8	73.1	0.814	83	144.0	106.0	69.3
17	29 751	29.787	29 726	79.2	86 0	74.5	72.1	0.789	80	157.3	109.0	70.0
18	29 794	29.859	29.748	78.5	* 89.0	74.8	72.8	0.807	83	* 160.0	115.9	70.1
19	29.869	29.902	29.840	76.9	83.7	73.1	73.7	0.832	90	133.7	106.0	71.0
20	29.921	29.954	29.893	79.0	88.3	73.1	72.7	0.803	82	158.8	115.5	69.6
21	29.944	29.970	29.920	79.0	86.7	73.1	73.9	0.837	85	147.0	110.3	69.0
22	29.970	29.998	29.949	79.5	88.6	72.8	74.5	0.856	86	149.5	112.5	68.3
23	29.994	30.022	29.962	79.1	87.8	73.4	73.6	0.828	84	153.3	113.0	69.1
24	29.959	30.000	29.924	78.5	86.2	72.8	72.3	0.794	84	149.5	116.9	67 9
25	29.973	29.995	29.946	79.4	87.7	69.6	73.4	0.824	82	155.0	113.0	64 5
26	30 032	30.058	30 011	79.9	88.0	74.0	72.6	0.803	80	153.2	112.0	69.1
27	30.030	30.061	29.982	78.9	87.9	71.2	71.4	0.771	80	154.1	112.8	65.0
28	29.939	29.985	29.889	78.5	87.6	71.8	71.7	0.751	79	152.5	112.0	57.2
29	29 833	29.879	29.785	76.8	85.9	69.2	69.7	0.726	80	151.7	109.0	66.0
30	29.811	29.858	29 782	76.3	85.4	68.0	69.0	0 708	80	148.0	108.5	57.5
31	29.889	29.932	29.851	78.5	87.5	71.5	71.6	0.774	80	158.0	114 9	67.5
均平 Means.	29.880	...	...	75.4	...	...	69.8	0.735	84	...	...	...
極至 Max. & Min.	...	30.073	29.644	...	89.0	58.9	...	...	...	160.0	12.11	51.2

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = $2'.37$.

觀象臺長 海軍五等技師 中川將行閲
觀測士
觀測助手 海軍二等技手 伊藤直温
同 海軍屬 嘉納謙作
同 海軍屬 日比翁助
同 海軍屬 白井正信
同 海軍八等技手 小澤兼藏
同 海軍十等技手 永江董

(Signed) Director.
M. Nakagawa.
Observer........................
Assistant.
N. Itō.
„ K. Kanō.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	C., With R. at times.
2	B., With *d.* at times in day; T. at 7 p.m.; R. at 8 p.m.; C. after 8 p.m.
3	C.; B. after 9 a.m.; *d.* in night.
4	*d.*
5	C.; R. 5.20 a.m.—10.30 p.m.; T. at 8.30 a.m.
6	*d.*; *l.h.* at 8 p.m.
7	C.; R. at times.
8	C. B. 5 a.m.—2 p.m.
9	R.
10	R. until 2 a.m.; *f.d.* after 2 a.m.; *f.p.* in night.
11	*fp.*; *d.* 3—8 p.m.
12	*f.p.*
13	*f.p.* in a.m.; *d* in p.m.; *s.h.* at 5 p.m.
14	B.C. in a.m. C. in p.m.;D at 1.30 p.m.
15	C., with R. at times.
16	R. at times until 10 a.m.; B. after 10 a.m.; C. after 5 p.m.
17	C., with R. at times.; T. at 3 a.m.
18	B.C. in day; C. in night.
19	R. until 3 a.m.; *f.d.* until noon; *f.p.* in p.m.
20	C.; R. after 1 p.m.; E. at 8.34 a.m.; Barometer fallen exceedingly.
21	C., with D at times in a.m.; *f.d.* in p.m. E. at 2·0p.m.
22	*d*, with B at times; D. at 8.30 a.m.; B. after 9 p.m.; E. at 1.55 and 7.45 a.m.
23	C.; R. 1130 a.m.—7.30 p.m., Barometer fallen exceedingly,
24	B. in a.m.; B.C. in p.m.; C. in night.
25	C.; B.C. after 9 a.m.; *d* after 3 p.m.; R. at 8.50 p.m.
26	C.; R. at times.
27	R.; *f.d.* after 6 a.m.; C. in night.
28	*d.*, R. after 11,30 p.m.
29	R. till 1 a.m.; C. after 1 a.m.; *f.d.* in night.
30	*f.d.*; C. after 6 p.m., E. at 8.0 a.m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日　陰時々雨
二日　晝間晴時々薄陰午後七時過雷鳴シ同八時頃暫時降雨後陰
三日　陰午前九時頃ヨリ漸々晴夜來薄陰
四日　晝夜薄陰
五日　陰午前五時二十分頃ヨリ午後十時三十分頃マデ降雨午前八時三十分頃雷鳴ス
六日　薄陰午後八時過月暈ヲ帶フ
七日　陰時々雨
八日　陰午前五時頃ヨリ午後二時頃マテ晴
九日　降雨
十日　午前二時頃マテ雨爾後薄晴夜來快晴
十一日　快晴午後三時頃ヨリ同八時頃マテ薄陰
十二日　晝夜快晴
十三日　午前快晴午後薄陰同五時頃日暈ヲ帶フ
十四日　午前半晴午後陰同一時三十分頃暫時疎雨
十五日　陰時々降雨
十六日　午前十時頃マテ時々降雨後漸々晴午後五時頃ヨリ陰
十七日　陰天時々降雨午前三時頃雷鳴ス
十八日　晝間半晴夜間陰
十九日　午前三時過マテ降雨後薄晴正午過漸々快晴
二十日　陰午後一時頃ヨリ降雨風雨鹹殊ニ降下ス　午前八時三十四分頃地震ス
廿一日　午前陰時々微雨午後薄晴　午後二時頃地震ス
廿二日　薄陰時々晴午前八時三十分頃暫時疎雨午後九時頃ヨリ晴　午前一時五十五分及同七時四十五分頃地震ス
廿三日　陰午前十一時三十分頃ヨリ午後七時三十分頃マテ降雨風雨鹹殊ニ降下ス
廿四日　午前晴午後半晴夜來陰
廿五日　陰午前九時頃ヨリ半晴午後三時後薄陰同八時五十分頃暫時降雨
廿六日　陰時々降雨
廿七日　午前六時頃マテ降雨爾後薄晴夜來陰
廿八日　薄陰午後十一時三十分頃ヨリ微雨
廿九日　午前一時頃マテ降雨爾後陰夜ニ入リ薄晴
三十日　薄晴午後六時頃ヨリ陰　午前八時零分頃地震ス

地平磁氣力
HORIZONTAL INTENSITY.

8th Beginning time 3h 40m / Ending 4 37 P. M. — 八日午後三時四十分ヨリ同四時三十七分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	183 3 0	2 10	2 35				
	W.					2	176 28 0	27 20	27 40
	E.	3	183 3 0	2 10	2 35				
	W.					4	176 28 20	27 30	27 55
	E.	5	183 3 20	2 30	2 55				
均平 Means			183° 2′ 43″.3				176° 27′ 47″.5		
西 West.	W.					6	176 24 40	23 50	24 15
	E.	7	182 57 0	56 0	56 30				
	W.					8	176 24 50	24 0	24 25
	E.	9	182 56 40	56 0	56 20				
	W.					10	176 25 0	24 10	24 35
均平 Means.			182° 56′ 25″.0				176° 24′ 25″.0		

平均温度 Mean Temperature $t = 73°.6$ fah.
偏針角 Angle of Deflection $u = 3° 16' 44''.0$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h m s	温度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m s
0	4 23 15.0	73.0	4.0	57.0	
10	23 59.8				
20	24 44.3				
31	25 33.3				
41	26 18.2				
51	27 3.0				
100	30 41.9				7 26.9
110	31 26.5				26.7
120	32 11.0				26.7
131	33 0.0				26.7
141	33 44.7				26.5
151	34 29.4	72.8	16.5	44.0	26.4
均平 Means.		72.9	....		7 26.65

捩拗差 Mean effect of 90° of Torsion $v = 1.71$
時儀日差 Daily rate $s = 1^s.41$ losing.

成果 Resulting absolute value X = 6.3314

29th Beginning time 4h 20m / Ending 5 34 P. M. — 二十九日午後四時二十分ヨリ同五時三十四分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	57 32 40	32 0	32 20				
	W.					2	51 4 20	3 40	4 00
	E.	3	57 33 0	32 20	32 40				
	W.					4	51 4 30	3 50	4 100
	E.	5	57 33 10	32 20	32 45				
均平 Means.			57° 32′ 35″.0				51° 4′ 5.″0		
西 West.	W.					6	51 1 0	0 20	0 40
	E.	7	57 26 20	25 40	26 00				
	W.					8	51 1 0	0 20	0 40
	E.	9	57 26 20	25 40	26 00				
	W.					10	51 1 0	0 20	0 40
均平 Means.			57° 26′ 0″.0				51° 0′ 40″.0		

平均温度 Mean Temperature $t = 75.°3$ fah.
偏針角 Angle of Deflection $u = 3° 13' 27.''5.$

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h m s	温度 Temp. °	尺度兩端之視閱數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m s
0	5 20 42.2	74.5	4.3	55.2	
10	21 27.4				
20	22 12.4				
31	23 2.0				
41	23 47.0				
51	24 32.0				
100	28 13.1				7 30.9
110	28 57.9				30.5
120	29 42.9				30.5
131	30 32.5				30.5
141	31 17.7				30.7
151	32 2.8	74.7	16.2	42.4	30.8
均平 Means.		74.6	....		7 30.65

捩拗差 Mean effect of 90° of Torsion $v = 1.68$
時儀日差 Daily rate $s = 2^s.38$ losing.

成果 Resulting absolute value X = 6.3278

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差 Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 6.1	5	4 4.9	9	4 6.6	13	4 9.5	17	4 6.8	21	4 4.3	25	4 7.9	29	4 7.8
2	4 5.1	6	4 5.4	10	4 7.3	14	4 8.8	18	4 5.1	22	4 5.4	26	4 6.8	30	4 6.2
3	4 4.4	7	4 4.7	11	4 7.4	15	4 7.6	19	4 6.0	23	4 6.2	27	4 6.7		
4	4 4.3	8	4 3.8	12	4 8.1	16	4 7.6	20	4 3.2	24	4 7.6	28	4 7.0		

平均 Mean = 4° 6.′29

磁氣傾差 Magnetic Inclination.

8th. Beginning / Ending time $5^h\ 0^m$ / 5 25 P. M. 八日午後五時零分ヨリ同時二十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 47	49 47	50 0	49 59	49 41	49 40	49 4	49 2	49 44	49 44	49 21	49 22	49 56	49 55	49 26	49 28
49 43	49 43	49 56	49 54	49 43	49 42	49 15	49 13	49 50	49 50	49 20	49 21	49 56	49 56	49 31	49 33
49 45.0	49 45.0	49 58.0	49 56.5	49 42.0	49 41.0	49 9.5	49 7.5	49 47.0	49 47.0	49 20.5	49 21.5	49 56.0	49 55.5	49 28.5	49 30.5
49 45.0		49 57.2		49 41.5		49 8.5		49 47.0		49 21.0		49 55.7		49 29.5	
49 51.1				49 25.0				49 34.0				49 42.6			
49 38.1								49 38.3							

成果 Resulting Dip = 49° 38.′2

29th. Beginning / Ending time $6^h\ 0^m$ / 6 21 P. M. 二十九日午後六時零分ヨリ同時二十一分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 45	49 44	49 41	49 40	49 34	49 32	49 19	49 15	49 41	49 42	49 26	49 26	49 35	49 36	49 38	49 41
49 41	49 39	49 41	49 38	49 34	49 31	49 17	49 13	49 49	49 51	49 25	49 25	49 32	49 34	49 40	49 43
49 43.0	49 41.5	49 41.0	49 39.0	49 34.0	49 31.5	49 18.0	49 14.0	49 45.0	49 46.5	49 25.5	49 25.5	49 33.5	49 35.0	49 39.0	49 42.0
49 42.2		49 40.0		49 32.8		49 16.0		49 45.8		49 25.5		49 34.3		49 40.5	
49 41.1				49 32.8				49 35.6				49 37.4			
49 41.5								49 36.5							

成果 Resulting Dip = 49° 34.′6

候天
WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus.	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	霧靄 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	3	...	1	...	...	4	...	...	...	9.9	0.07
2	...	...	2	3	3	...	...	...	...	...	...	6.3	0.03
3	...	1	...	5	1	1	...	...	...	...	...	5.1	...
4	...	...	5	1	1	1	...	...	...	...	...	9.1	...
5	...	...	1	1	...	...	...	6	...	...	...	10.0	0.12
6	1	...	...	3	...	4	...	...	...	...	...	9.0	1.80
7	...	3	1	1	...	...	...	3	...	...	...	9.9	0.05
8	...	...	1	3	...	...	4	...	...	...	...	7.0	0 22
9	...	...	...	1	...	...	...	7	...	...	...	10.0	0.21
10	...	2	...	3	1	2	...	...	...	...	...	6.4	0.66
11	...	...	...	5	1	...	...	...	...	...	2	3.1	...
12	...	...	1	...	5	...	...	...	...	...	2	0.8	...
13	1	...	...	1	5	...	...	...	...	...	1	4.9	...
14	...	7	...	1	...	...	...	...	...	...	...	9 0	...
15	...	1	1	2	...	...	...	4	...	...	...	10.0	0.05
16	...	1	1	2	2	...	...	2	...	...	...	8.5	1.07
17	...	...	1	...	...	3	...	4	...	...	...	10.0	0.09
18	...	...	2	3	...	3	...	...	...	...	...	7.8	0.04
19	...	1	...	2	...	3	...	1	...	...	1	6.0	0.02
20	...	...	...	2	1	1	...	4	...	...	...	9.8	...
21	...	1	1	2	...	3	1	...	...	...	...	9.3	1.84
22	...	3	...	2	...	3	...	...	...	...	...	7.8	...
23	...	...	1	1	...	2	...	3	...	1	...	9.6	...
24	2	1	1	1	2	1	...	...	...	...	...	5.1	2.77
25	...	...	...	5	...	1	1	1	...	...	...	7.9	...
26	...	...	1	1	...	1	...	5	...	...	...	10.0	0.06
27	...	2	...	2	2	...	1	1	...	...	...	8.4	0.53
28	...	...	...	4	...	3	...	1	...	...	...	9.4	...
29	...	3	1	...	...	4	...	...	...	...	...	9.4	0.03
30	...	2	...	3	...	1	...	1	...	1	...	8.0	...
計合 Sums.	4	28	24	60	25	37	7	47	...	2	6	...	9.66
均平 Means.	...	...	...	...	...	...	...	...	...	...	...	7.9	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	2	8	25.4	...	...	...	...	..	...	14	50.9	...	...	...	...	...	...	24	76 3	N.	6.7
2	1	4	45.9	3	24.2	2	13.3	6	476	7	13.2	...	...	...	...	1	2.3	24	146.5	N.	15.8
3	...	7	20.2	...	...	2	12.4	7	61.9	7	51.4	1	9.5	...	...	...	...	24	155.4	S. E	10.4
4	...	...	...	...	...	...	...	...	...	19	248.6	3	3.2	2	1.6	...	...	24	253.4	S.	20.5
5	...	...	...	2	39.0	3	38.7	5	66.9	6	73.9	1	8.8	...	...	7	71.5	24	298.8	N. E.	22.9
6	...	3	6.3	1	4 5	...	...	2	17.8	8	51.3	2	21.4	1	3.7	7	22.0	24	127.0	S.	13.9
7	...	8	55.7	12	61.9	3	14.6	1	4 8	...	...	...	...	...	...	...	...	24	137.0	N.	9.0
8	...	1	7.8	8	17.8	4	43.3	4	37.6	6	65.5	...	...	1	2.8	...	...	24	174.8	S.	15.0
9	...	4	16.6	1	1.5	7	71.2	8	51.4	1	13.6	3	20.4	...	...	...	...	24	174.7	S. E.	13.9
10	...	10	31.1	1	1.6	...	...	4	29.6	5	48.6	3	44.0	...	...	1	3.7	24	158.6	S. W	17.2
11	...	6	33.1	...	...	...	...	...	...	13	176.5	2	21.0	...	...	3	8.4	24	239.0	S.	22.4
12	...	3	13.3	...	...	...	...	4	29.9	7	64.1	4	40.3	...	...	6	22.4	24	170.0	S. W.	14.1
13	...	...	...	...	...	...	...	2	1·22	16	177.0	6	7.7	...	...	...	...	24	196.9	S.	15.7
14	...	5	9.2	6	31.9	8	45.4	...	...	5	20.1	...	...	...	...	...	...	24	106.6	E.	8.2
15	...	...	...	17	104.7	7	47.2	...	...	...	...	...	...	...	...	...	...	24	151.9	E.	9.5
16	...	8	49.5	3	19.2	2	23.2	10	120.8	...	...	...	...	...	...	1	5.2	24	217.9	S. E.	16.4
17	...	2	10.6	...	...	...	...	5	39.2	10	87.5	1	10.3	2	5.9	4	30.5	24	184.1	S.	14.7
18	...	4	15.1	4	30.8	3	36.6	8	73.2	2	11.4	...	...	...	...	3	5.1	24	172.2	S. E.	13.3
19	...	10	56.7	2	14.5	...	...	4	38.4	4	34.1	4	28.2	...	...	...	...	24	171.9	S.	11 2
20	...	1	4.1	...	...	3	10.3	7	61.8	6	43.9	4	21.2	1	2.5	2	11 9	24	155.7	S. E.	13.3
21	...	2	12.0	4	23.9	1	3.2	14	134.7	...	...	...	...	...	...	3	10.1	24	183.9	S. E.	14.3
22	5	1	1.1	3	3.3	6	43.2	6	26 1	2	6.4	...	...	...	...	1	3.6	24	83.7	S. E.	10.9
23	...	...	...	3	47.7	4	34.7	7	22.0	3	3.5	...	...	6	67.3	1	30.3	24	205.5	N.W.	* 30.3
24	...	2	20.6	...	...	5	58.8	4	34.2	2	19.5	2	11.6	4	27.7	5	65.4	24	237.3	N.W.	15.8
25	...	...	...	4	18.5	2	8.4	8	51.0	10	94.6	...	...	...	...	...	...	24	172.5	S. E.	13.0
26	2	6	32.3	12	10.36	...	...	...	...	2	5.7	...	...	...	...	2	5.2	24	146.8	N. E.	11.3
27	...	10	85 2	2	15.5	...	...	5	40.6	5	36.7	2	18.9	...	...	...	...	24	193.9	S.	11.5
28	...	...	...	3	14.0	9	6.56	8	59.5	2	10.4	1	1.0	1	2.2	...	...	24	152 7	E.	10.0
29	...	...	...	10	39.1	...	...	11	38.9	...	...	3	2.3	...	...	...	...	24	80.3	N. E.	6.0
30	...	3	27.2	8	51.1	...	...	10	67.8	3	19.5	...	...	...	...	...	...	24	165.6	S. E.	11.7
計合 Sums.	10	108	579.0	109	668.3	71	570.1	150	1167.9	165	1427.9	42	269.8	18	113.2	47	297.6	720	5093.8	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	N.W.	30.3

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	95	97	98	98	89	95	99	99
2	100	98	87	72	69	71	94	84
3	92	88	68	56	53	65	84	88
4	95	93	81	65	71	76	84	87
5	90	90	89	85	95	94	93	93
6	95	92	79	70	72	77	94	94
7	94	98	88	77	73	84	98	99
8	98	95	71	70	63	74	86	87
9	89	94	93	94	96	96	96	99
10	99	99	74	75	66	48	66	82
11	94	91	69	54	66	69	75	83
12	83	83	55	53	50	56	82	85
13	93	88	74	58	55	72	87	87
14	96	93	72	65	70	84	89	93
15	99	95	88	72	92	99	98	97
16	97	95	80	63	66	75	88	91
17	95	95	86	74	76	93	88	93
18	98	93	78	70	64	77	89	88
19	96	89	77	67	65	70	88	90
20	92	89	80	66	93	93	98	98
21	93	89	77	71	70	74	78	95
22	94	93	85	71	67	77	87	95
23	97	96	77	77	98	96	82	82
24	83	65	48	43	51	64	69	77
25	83	83	71	67	66	77	89	90
26	91	94	94	96	91	92	89	98
27	97	96	80	69	66	78	81	84
28	93	93	79	61	61	71	80	92
29	93	93	75	75	71	75	87	95
30	98	96	84	63	61	71	81	91
平均 Means.	94	92	79	70	72	76	87	90

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.648	0.664	0.682	0.692	0.697	0.716	0.704	0.657
2	0.613	0.601	0.666	0.716	0.650	0.613	0.644	0.548
3	0.528	0.537	0.545	0.522	0.488	0.514	0.548	0.545
4	0.526	0.556	0.603	0.576	0.588	0.574	0.596	0.596
5	0.624	0.588	0.588	0.620	0.560	0.524	0.524	0.526
6	0.524	0.529	0.516	0.554	0.570	0.554	0.639	0.596
7	0.580	0.518	0.562	0.546	0.554	0.552	0.562	0.535
8	0.522	0.541	0.524	0.568	0.558	0.537	0.526	0.503
9	0.503	0.533	0.578	0.560	0.590	0.598	0.590	0.572
10	0.566	0.572	0.560	0.586	0.554	0.396	0.437	0.492
11	0.483	0.473	0.500	0.475	0.546	0.529	0.483	0.492
12	0.431	0.453	0.443	0.472	0.453	0.470	0.545	0.543
13	0.483	0.487	0.586	0.548	0.552	0.570	0.635	0.617
14	0.596	0.613	0.613	0.620	0.592	0.576	0.570	0.562
15	0.554	0.564	0.605	0.568	0.636	0.588	0.564	0.556
16	0.529	0.529	0.539	0.531	0.554	0.566	0.611	0.626
17	0.564	0.545	0.574	0.582	0.568	0.639	0.605	0.609
18	0.607	0.570	0.568	0.617	0.609	0.650	0.646	0.572
19	0.580	0.543	0.568	0.588	0.603	0.611	0.626	0.650
20	0.652	0.657	0.675	0.617	0.684	0.650	0.601	0.613
21	0.592	0.592	0.570	0.613	0.584	0.568	0.570	0.648
22	0.635	0.639	0.664	0.652	0.650	0.673	0.675	0.666
23	0.635	0.671	0.659	0.650	0.668	0.689	0.562	0.564
24	0.545	0.489	0.533	0.558	0.594	0.566	0.507	0.518
25	0.548	0.533	0.594	0.620	0.641	0.650	0.657	0.622
26	0.621	0.644	0.644	0.652	0.680	0.646	0.609	0.628
27	0.613	0.594	0.588	0.607	0.598	0.620	0.601	0.601
28	0.635	0.633	0.639	0.613	0.601	0.603	0.622	0.650
29	0.657	0.639	0.609	0.578	0.622	0.620	0.644	0.635
30	0.611	0.630	0.633	0.607	0.630	0.641	0.644	0.661
平均 Means.	0.574	0.571	0.588	0.590	0.596	0.590	0.592	0.587

度温點露

DEW POINT.

日次 Date.	時三前午 3 A. M.	時六前午 6 A. M.	時九前午 9 A. M.	午正 Noon.	時三後午 3 P. M.	時六後午 6 P. M.	時九後午 9 P. M.	子正 Midnight.
	°	°	°	°	°	°	°	
1	6.64	67.1	67.9	68.3	68.5	69.3	68.8	66.8
2	64.8	64.2	67.2	69.3	66.5	64.8	66.2	61.6
3	60.5	61.0	61.4	60.2	58.2	59.8	61.6	61.4
4	60.4	62.0	64.3	63.0	63.6	62.9	64.0	64.0
5	65.3	63.6	63.6	65.1	62.2	60.3	60.3	60.4
6	60.3	60.6	59.9	61.9	62.7	61.9	66.0	64.0
7	63.2	60.0	62.3	61.5	61.9	61.8	62.3	60.9
8	60.2	61.2	60.3	62.6	62.1	61.0	60.4	59.2
9	59.2	60.8	63.1	62.2	63.7	64.1	63.7	62.8
10	62.5	62.8	62.2	63.5	61.9	52.5	55.3	58.6
11	58.1	57.5	59.0	57.6	61.5	60.6	58.1	58.6
12	54.9	56.2	55.6	57.4	56.2	57.3	61.4	61.3
13	58.1	58.3	63.5	61.6	61.8	62.7	65.8	65.0
14	64.0	64.8	64.8	65.1	63.8	63.0	62.7	62.3
15	61.9	62.4	64.4	62.6	65.8	63.6	62.4	62.0
16	60.6	60.6	61.1	60.7	61.9	62.5	64.7	65.4
17	62.4	61.4	62.9	63.3	62.6	66.0	64.4	64.6
18	64.5	62.7	62.6	65.0	64.6	66.5	66.3	62.8
19	63.2	61.3	62.6	63.6	64.3	64.7	65.4	66.5
20	66.6	66.8	67.6	65.0	68.0	66.5	64.2	64.8
21	63.8	63.8	62.7	64.8	63.4	62.6	62.7	66.4
22	65.8	66.0	67.1	66.6	66.5	67.5	67.6	67.2
23	65.8	67.4	66.9	66.5	67.3	68.2	62.3	62.4
24	61.4	58.4	60.8	62.1	63.9	62.5	59.4	60.0
25	61.6	60.8	63.9	65.1	66.1	66.5	66.8	65.2
26	65.1	66.2	66.2	66.6	67.8	66.3	64.6	65.5
27	64.8	63.9	63.6	64.5	64.1	65.1	64.2	64.2
28	65.8	65.7	66.0	64.8	64.2	64.3	65.2	66.5
29	66.8	66.0	64.6	63.1	65.2	65.1	66.2	65.8
30	64.7	65.6	65.7	64.5	65.6	66.1	66.2	67.0
均平 Means.	62.8	6.26	63.5	63.6	63.9	63.5	63.6	63.4

明治二十年六月

JUNE. 1887.

寒暑鍼 THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	68.0	68.0	68.4	69.0	7.20	70.9	69.2	67.2
2	64.8	64.9	71.4	79.0	77.6	74.8	68.0	66.5
3	63.0	64.6	72.8	77.0	76.7	72.0	66.5	65.0
4	61.9	64.2	70·8	75.9	73.6	70.8	69.0	68.0
5	68.5	66.7	66.8	70.3	63.8	62.0	61.8	61.9
6	61.8	63·1	66.7	72.4	72.8	69.5	67.8	65.8
7	65.0	62.6	65.9	69.0	71.1	66.7	62.9	61.3
8	60.8	67.2	70.0	73.0	75.5	69.7	64.7	63.1
9	62.5	62.5	64.9	64.0	64.8	65.2	64.8	63.2
10	62.7	63.2	71.0	71.7	74.0	74.0	67.0	64.1
11	59.8	60.2	69.8	75.3	73.9	71.2	66.4	63.8
12	60.0	6.16	73.0	75.9	77.3	73.8	67.0	66.0
13	60.0	62.0	72.2	77·2	79 2	72.3	70.0	69.0
14	65.3	67.0	74.3	77.7	73.9	68.0	65.9	64.5
15	62.1	64.0	68.0	72.0	68.2	64.0	63.0	62.9
16	61.5	62.1	67.4	74.0	74.0	70.7	68.3	68.3
17	64.0	62.7	67·0	72.0	70.7	68.0	68.0	66.9
18	65.2	64.9	69.7	75.3	77.6	74.3	69.7	66.2
19	64.5	64.6	70.2	75.3	77.0	75 0	69.0	69.5
20	69.1	70.2	74.2	77.2	70.0	67.0	64.7	65.3
21	65.8	67.0	70.3	74.8	73.8	71.2	70.0	67.8
22	67.6	68.2	72.0	76.8	78.5	75.3	72.0	68.6
23	66.7	68.5	74.7	74.1	68.0	69.3	68.1	68.2
24	66.8	70.9	82.5	86.7	83.8	75.2	70.0	67.7
25	67.0	66.2	73.7	77.0	78.2	74.1	70.2	6.80
26	68.0	68.0	68.0	6.77	70.7	68.8	67.8	66.0
27	65.7	65.2	70.0	75.1	76.4	72.3	70.2	69.4
28	68.0	68.0	72.8	79.1	78.5	74.3	71.8	69.0
29	68.8	68.0	73.0	73.5	75.0	73.7	70.4	67.2
30	65.2	66.7	71.0	78.0	79.8	76.1	72.6	7.00
平均 Means.	64.7	65.5	70.8	74.5	74.2	71.0	67.9	66.3

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.835	29.861	29.863	29.839	29.810	29.824	29.862	29.873
2	29.903	29.960	29.996	29.977	29.944	29.952	30.058	30.008
3	30.114	30.155	30.179	30.141	30.110	30.115	30.145	30.132
4	30.113	30.114	30.116	30.072	30.011	29.994	29.989	29.972
5	29.931	29.925	29.918	29.829	29.709	29.599	29.675	29.677
6	29.685	29.723	29.731	29.716	29.677	29.676	29.705	29.726
7	29.728	29.766	29.780	29.774	29.762	29.781	29.840	29.855
8	29.861	29.909	29.893	29.905	29.894	29.898	29.941	29.928
9	29.900	29.877	29.812	29.790	29.738	29.692	29.646	29.607
10	29.587	29.614	29.657	29.595	29.553	29.511	29.535	29.598
11	29.618	29.643	29.657	29.635	29.633	29.548	29.588	29.620
12	29.628	29.685	29.699	29.690	29.674	29.683	29.723	29.744
13	29.786	29.791	29.810	29.792	29.781	29.794	29.843	29.824
14	29.834	29.860	29.872	29.850	29.814	29.832	29.810	29.782
15	29.739	29.713	29.678	29.644	29.622	29.645	29.668	29.644
16	29.626	29.658	29.670	29.637	29.607	29.631	29.666	29.625
17	29.633	29.668	29.688	29.657	29.652	29.663	29.694	29.684
18	29.698	29.779	29.812	29.808	29.789	29.806	29.872	29.895
19	29.910	29.935	29.960	29.958	29.938	29.936	29.979	29.981
20	29.956	29.946	29.928	29.862	29.743	29.570	29.404	29.336
21	29.363	29.429	29.514	29.564	29.600	29.631	29.705	29.710
22	29.712	29.744	29.766	29.778	29.759	29.779	29.835	29.841
23	29.831	29.818	29.836	29.738	29.579	29.294	29.439	29.482
24	29.444	29.518	29.579	29.631	29.665	29.733	29.808	29.806
25	29.791	29.797	29.795	29.750	39.683	29.669	29.670	29.660
26	29.630	29.656	29.628	29.616	29.582	29.588	29.631	29.614
27	29.594	29.619	29.675	29.702	29.725	29.759	29.793	29.819
28	29.829	29.841	29.903	29.886	29.870	29.877	29.893	29.875
29	29.864	29.854	29.856	29.818	29.793	29.786	29.812	29.793
30	29.749	29.748	29.743	29.691	29.663	29.700	29.744	29.294
平均 Means.	29.763	29.787	29.800	29.778	29.746	29.732	29.766	29.764

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level.			寒暑鍼 Thermometer.			露點温度	水氣張力	濕氣百分數	無氣中日温度	日温度	地温度
	平均 Mean.	極高 Max.	極低 Min.	平均 Mean.	極高 Max.	極低 Min.	平均 Mean Temp. of Dew point.	平均 Mean elastic force of Vapour.	平均 Mean Humidity (Sat. = 100).	極高 Vacuum solar radiation Max.	極高 Solar radiation Max.	極低 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.846	29.873	29.810	69.2	72.6	66.4	67.9	0.683	96	93.4	81.0	60.0
2	29.986	30.098	29.903	70.9	80.4	62.0	65.6	0.631	84	150.0	111.1	56.5
3	30.136	* 30.179	30.110	69.7	77.9	62.1	60.5	0.528	74	149.5	106.0	57.5
4	30.048	30 116	29.972	69.3	75.9	61.3	63.0	0.577	82	142.7	100.1	55.3
5	29.783	29.931	29.599	65.2	70.3	6.00	62.6	0.569	91	109.0	79.8	58.5
6	29.705	29.731	29.676	67.5	74.2	59.8	62.2	0.560	84	145.0	105.0	54.1
7	29.786	29.855	29.722	65.6	71.2	60.6	61.7	0.551	89	140.9	99.2	54.9
8	29.901	29.941	29.861	68.0	75.6	59.1	60.9	0.535	81	146.2	104.0	54.0
9	29.758	29.900	29.607	64.0	66.0	61.6	62.9	0.566	95	85.5	72.0	60.3
10	29.581	29.657	29.511	68.5	77.1	61.8	59.9	0.520	76	143.3	103.9	54.9
11	29.618	29.657	29.548	67.6	76.0	* 56.8	58.9	0.498	75	142.0	99.7	* 49.0
12	29 691	29.744	29.628	69.3	77.6	57.8	57.5	0.476	68	145.9	104.9	50.0
13	29.803	29.843	29.781	70.2	81.0	58.9	62.1	0.560	77	144.5	105.0	50.4
14	29.832	29.872	29.782	69.6	79.3	63.7	63.8	0.593	83	154.8	110.0	55.7
15	29.669	29.739	29.622	65.5	73.0	61.3	63.1	0.579	93	108.0	85.0	60.0
16	29.640	29.670	29.607	68.3	76.2	60.2	62.2	0.561	82	151.3	110.5	58.4
17	29.667	29.694	29.633	67.4	73.2	61.8	63.5	0.586	88	140.0	105.5	59.8
18	29.807	29.895	29.698	70.4	79.2	62.8	64.4	0.605	82	148.9	113.8	56.2
19	29.950	29.981	29.910	70.6	78.5	63.4	64.0	0.596	80	153.3	110.5	61.5
20	29.718	29.956	29.336	69.7	78.3	64.0	66.2	0.644	89	148.5	107.5	63.0
21	29.565	29.710	29.363	70.1	74.8	64.6	63.8	0.592	81	145.9	106.0	61.2
22	29.777	29.841	29.712	72.4	81.8	65.8	66.8	0.657	84	157.5	114.8	62.0
23	29.627	29.836	* 29.294	69.7	76.0	65.7	65.9	0.637	88	129.5	98.0	60·6
24	29.648	29.808	29.444	65.5	* 88.9	66.2	61.1	0.539	63	154.1	* 116.8	58.3
25	29.727	29.797	29.660	71.8	80.5	65.5	64.5	0.608	78	* 159.8	114.5	62.6
26	29 618	29.656	29.582	68.1	73.5	65.5	66.0	0.641	93	114.8	84.0	63.0
27	29.711	29.819	29.592	70.5	77.6	64.2	64.3	0.603	81	150.1	109.0	62.0
28	29.872	29.903	29.829	72.7	81.2	67.2	65.3	0.625	79	133.8	112.8	63.5
29	29.822	29.864	29.786	71.2	75.7	67.0	65.4	0.626	83	108.7	90.7	60.1
30	29.720	29.749	29.663	72.4	82.9	64.8	65.7	0.632	81	153.9	112.2	55.8
平均 Means.	29.767	...	...	69.4	...	...	63.4	0.586	83	...	...	...
極至 Max. & Min.	...	30.179	29.294	...	88.9	56.8	...	...	...	159.8	116.8	49.0

凡例

一風雨鍼ハ氷點及海面ニ改正ス
一寒暑鍼ハ都テ華氏ノ度表ヲ用フ
一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス
一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス
一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ揭ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス
又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス
一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ
一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス
一搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

職	官等	氏名
觀象臺長	海軍五等技師	中川將行 閲
觀測士		
觀測助手	海軍二等技手	伊藤直温
同	海軍屬	嘉納謙作
同	海軍屬	日比翁助
同	海軍屬	白井正信
同	海軍八等技手	小澤兼藏
同	海軍十等技手	永江董

(Signed) Director.

M. Nakagawa.

Observer.......................

Assistant.

N. Itō.

" K. Kanō.

" O. Hibi.

" M. Shirai.

" K. Ozawa.

" T. Nagaye.

REMARKS.

Day.	
1	T. R. at times till 3 a.m.; Clearing after 7 a.m.; *l. h.* at 9 p.m.
2	*f. p.* until day break; C.; D. at times after 1 p.m.; E. at 11.24 a.m.
3	C., with R. at times; B. after 9 p.m.
4	B. in a.m.; C. in p.m.
5	*d.*; D. at 6.40 p.m.; E. at 2.41 a.m.
6	C.; R. after 6 p.m.
7	R.; *r. b.* at 5 p.m.; *d.* after 5. p.m.; S. w_2 in day; E. at 7.12 a.m.
8	*d.*; with B. at times.
9	*d.*; with B. C. at times; *l. h.* at 3 a.m.
10	C.; R. 7 a.m.—8 p.m.
11	C.
12	C.; *f. d.* 4—9 a.m.; R. after 10 p.m.
13	R.; *d.* after 10 a.m.; R. at times after 4 p.m.
14	R.; B. after 9 p.m.
15	*f. p.*
16	B. C. in a.m.; C. in p.m.; S. w_2 noon—6 p.m.
17	*d.* in a.m.; C. in p.m.; D. at midnight.; E. at 4.19 p.m.
18	*d.* in a.m.; *f. p.* in p.m.
19	*f. p.* in a.m.; C. in p.m.
20	*d.*; R. 3 a.m.—2.30 p.m.; *f. p.* in night.
21	*d.* in day; *f. p.* in night.
22	*d.*; R. after 11 p.m.; L. to the east in night; S. w_2 noon—8 p.m.
23	R.; *d.*, with B. at times after 3 a.m.; T. R. at times after 1 p.m.; H. at 5 p.m.; *r. b.* at 5.20 p.m.
24	B.; C. after 6 p.m.; R. after 11 p.m.
25	R.; *d.*, with B. at times after 3 a.m.; D. at noon.
26	*d.*; B. C. at times.
27	C.
28	C., with D. at times in a.m.; R. in p.m.
29	R.; T. at 6.30 a.m.; C. after 7 p.m.; E. at 0.50 & 1.12 a.m.
30	B. C. in day; C. in night; *l. h.* at 8 p.m.
31	C., with R. at times.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1= slight, w_5= strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

日	記事
一日	午前三時頃マテ降雨其間時々雷鳴シ同七時頃ヨリ漸々快晴午後九時頃月暈アリ
二日	拂曉前快晴爾後漸々陰午後一時過ヨリ時々細雨　午前十一時二十四分頃地震ス
三日	陰天時々降雨午後九時過ヨリ漸々晴
四日	午前晴午後漸々陰
五日	薄陰午後六時四十分頃暫時微雨降ル　午前二時四十一分頃地震ス
六日	陰午後六時頃ヨリ降雨
七日	降雨午後五時頃虹ヲ現シ後薄陰晝間南風稍强　午前七時十二分頃地震ス
八日	薄陰時々晴
九日	薄陰時々半晴午前三時頃月暈アリ
十日	陰午前七時ヨリ午後八時頃マテ降雨
十一日	晝夜陰天
十二日	陰午前四時頃ヨリ同九時マテ薄晴午後十時過ヨリ降雨
十三日	午前十時頃マテ降雨後薄陰午後四時頃ヨリ時々復降雨
十四日	午後九時頃マテ降雨後漸々晴
十五日	快晴
十六日	午前半晴午後陰正午ヨリ午後六時頃マテ南風稍强
十七日	午前薄陰午後陰正子頃暫時微雨　午後四時十九分頃地震ス
十八日	午前薄陰午後漸々快晴
十九日	午前快晴午後陰
二十日	薄陰午前三時頃ヨリ午後二時三十分頃マテ降雨夜來快晴
廿一日	晝間薄陰夜間快晴
廿二日	薄陰午後十一時頃ヨリ降雨夜來時々東方ニ電光發シ正午過ヨリ午後八時頃マテ南風稍强
廿三日	午前三時頃マテ降雨後時薄陰時々晴午後一時頃ヨリ時々雷雨同五時頃暫時降雹同時二十分頃虹ヲ現ス後復時々雷雨
廿四日	晴午後六時頃ヨリ陰同十一時頃ヨリ降雨
廿五日	午前三時頃マテ降雨後薄陰時々晴正午過暫時微雨
廿六日	薄陰時々半晴
廿七日	晝夜陰天
廿八日	午前陰時々細雨午後續テ降雨
廿九日	降雨午前六時三十分頃遠雷ヲ聞キ午後七時頃雨歇ミ後陰　午前零時五十分及同一時十二分頃地震ス
三十日	晝間半晴夜間陰午後八時過月暈アリ
三十一日	陰天時々降雨

地平磁氣力
HORIZONTAL INTENSITY.

8th Beginning / Ending time $3^h\ 30^m$ / 4 35 P. M. 八日午後三時三十分ヨリ同四時三十五分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	視關度 Circle — Readings. A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean ′ ″
東 East.	E.	1	62 12 30	11 50	12 10				
	W.					2	55 37 40	37 0	37 20
	E.	3	62 12 40	12 0	12 20				
	W.					4	55 37 40	37 0	37 20
	E.	5	62 13 0	12 20	12 40				
平均 Means			62° 12′ 23″.3				55° 37′ 20″.0		
西 West.	W.					6	55 33 50	33 10	33 30
	E.	7	62 5 40	5 0	5 20				
	W.					8	55 34 0	33 20	33 40
	E.	9	62 6 0	5 20	5 40				
	W.					10	55 34 10	33 30	33 50
平均 Means.			62° 5′ 30″.0				55° 33′ 40″.0		

平均温度 Mean Temperature t = 70°.0fah.

偏針角 Angle of Deflection u = 3° 16′ 43″.3

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端視關數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	21	56.7	68.0	0.1	59.5		
10	4	22	41.2					
20	4	23	25.9					
31	4	24	15.1					
41	4	24	59.6					
51	4	25	44.4					
100	4	29	22.9				7	26.2
110	4	30	7.8					26.6
120	4	30	52.3					26.4
131	4	31	41.6					26.5
141	4	32	26.2					26.6
151	4	33	11.0	67.8	13.2	45.8		26.6
平均 Means.				67.9			7	26.43

物捩差 Mean effect of 90° of Torsion v = 1.73

時儀日差 Daily rate $s = 4^s.98$ losing.

成果 Resulting absolute value X = 6.3332

17th Beginning / Ending time $4^h\ 15^m$ / 5 15 P. M. 十七日午後四時十五分ヨリ同五時十五分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	視關度 Circle — Readings. A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	303 31 20	30 40	31 0				
	W.					2	296 55 20	54 40	55 0
	E.	3	303 32 0	31 20	31 40				
	W.					4	296 56 0	55 20	55 40
	E.	5	303 32 20	31 40	32 0				
平均 Means.			303° 31′ 33″.3				296° 55′ 20″.0		
西 West.	W.					6	296 53 0	52 20	52 40
	E.	7	303 26 20	25 40	26 0				
	W.					8	296 53 40	53 0	53 20
	E.	9	303 26 20	25 40	26 0				
	W.					10	296 53 20	52 40	53 0
平均 Means.			303° 26′ 0″.0				296° 53′ 0″.0		

平均温度 Mean Temperature t = 64.°0 fah.

偏針角 Angle of Deflection u = 3° 17′ 18.″3.

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端視關數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	5	1	49.0	62.7	0.5	59.0		
10	5	2	30.6					
20	5	3	15.1					
31	5	4	4.5					
41	5	4	48.9					
51	5	5	33.4					
100	5	9	12.4				7	26.4
110	5	9	57.0					26.4
120	5	10	41.7					26.6
131	5	11	30.5					26.0
141	5	12	15.5					26.6
151	5	13	0.0	62.3	13.6	45.2		26.6
平均 Means.				62.5			7	26.43

物捩差 Mean effect of 90° of Torsion v = 1.94

時儀日差 Daily rate $s = 3^s.58$ losing.

成果 Resulting absolute value X = 6.3250

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 5.7	5	4 4.9	9	4 4.6	13	4 6.4	17	4 4.2	21	4 3.9	25	4 6.2	29	4 3.4
2	4 5.8	6	4 3.8	10	4 5.0	14	4 4.3	18	4 5.0	22	4 4.6	26	4 5.1	30	4 5.0
3	4 6.5	7	4 3.1	11	4 6.3	15	4 6.7	19	4 5.0	23	4 4.2	27	4 4.6	31	4 3.4
4	4 4.5	8	4 5.7	12	4 6.1	16	4 5.4	20	4 5.3	24	4 2.6	28	4 5.1		

平均 Mean = 4° 4.′92

磁氣傾差
Magnetic Inclination.

8th. Beginning / Ending time 5^h 5 ^{m} / 5 32 P. M. 八日午後五時五分ヨリ同五時三十二分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 31	49 31	49 37	49 54	49 37	49 33	49 12	49 7	49 39	49 40	49 20	49 21	49 53	49 55	49 47	49 49
49 37	49 35	49 59	49 56	49 35	49 31	49 16	49 11	49 50	49 52	49 18	49 22	49 55	49 58	49 41	49 45
49 34.0	49 33.0	49 58.0	49 55.0	49 36 0	49 32.0	49 14.0	49 9.0	49 44.5	49 46.0	49 19.0	49 21.5	49 54.0	49 56.5	49 44.0	49 47.0
49 33.5		49 56.5		49 34.0		49 11.5		49 45.3		49 20.3		49 55.3		49 45.5	
49 45.0				49 22.8				49 32.8				49 50.4			
49 33.9								49 41.6							

成果 Resulting Dip = 49° 37.′7

17th. Beginning / Ending time 4^h15 ^{m} / 5 15 P. M. 十七日午後四時十五分ヨリ同五時十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 39	49 38	49 53	49 51	49 34	49 34	49 44	49 40	49 44	49 47	49 21	49 23	49 50	49 50	49 43	49 45
49 38	49 38	49 55	49 52	49 34	49 32	49 42	49 39	49 46	49 47	49 20	49 23	49 53	49 54	49 36	49 40
49 38.5	49 38.0	49 54.0	49 51.5	49 34 0	49 33.0	49 43.0	49 39 5	49 45.0	49 47.0	49 20.5	49 23.0	49 51.5	49 52.0	49 39.5	49 42.5
49 38.3		49 52 8		49 33.5		49 41.3		49 46.0		49 21.8		49 51.8		49 41.0	
49 45.6				49 37.4				49 33.9				49 46.4			
49 41.5								49 40.2							

成果 Resulting Dip = 49° 40.′9

天候

WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	濛霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	1	...	...	2	...	1	...	1	...	...	3	2.1	0.23
2	...	1	...	2	...	4	...	...	...	...	1	8.6	...
3	...	2	...	2	...	...	...	3	...	...	1	8.5	...
4	...	...	...	6	...	...	...	...	...	...	2	6.3	0.55
5	...	2	...	1	...	5	...	...	...	...	...	9.9	...
6	...	...	...	1	2	3	...	2	...	...	...	9.8	...
7	...	1	...	2	...	...	...	5	...	...	...	9.6	0.53
8	...	...	...	1	6	1	...	...	...	...	...	4.6	0.21
9	1	...	...	2	5	...	...	...	...	...	...	7.6	...
10	...	...	...	2	1	1	...	4	...	...	...	9.9	...
11	...	...	2	2	...	4	...	...	...	...	...	10.0	0.65
12	...	1	2	...	...	4	...	1	...	...	...	9.6	...
13	...	5	...	...	...	...	...	3	...	...	...	9.6	0.70
14	...	...	1	...	1	...	...	6	...	...	...	9.0	0.51
15	2	...	1	...	2	...	...	...	...	...	3	2.4	0.33
16	...	...	...	...	3	5	...	...	...	...	...	7.4	...
17	1	1	1	...	1	3	...	1	...	...	...	9.6	...
18	...	...	2	2	...	...	2	...	...	...	2	4.9	...
19	...	...	...	2	1	4	...	...	...	...	1	6.6	...
20	...	2	...	2	...	...	...	4	...	...	...	7.6	0.35
21	...	1	...	...	5	...	...	...	...	...	2	5.1	0.49
22	3	1	1	2	...	...	...	1	...	...	...	8.9	...
23	...	2	2	...	...	2	...	2	...	...	...	8.9	0.07
24	...	1	2	2	...	2	1	...	...	...	...	4.5	0.48
25	...	1	...	5	...	1	...	1	...	...	...	7.5	0.08
26	...	2	1	4	...	1	...	...	...	...	...	7.3	...
27	...	...	2	4	2	...	...	...	...	...	...	9.6	...
28	...	...	1	...	...	2	...	5	...	...	...	10.0	...
29	...	1	...	...	...	...	...	7	...	...	...	10.0	1.57
30	...	1	...	5	...	1	1	...	...	...	...	6.8	0.36
31	...	...	1	...	...	6	...	1			...	10.0	0.11
合計 Sums.	8	25	19	51	29	50	4	47	...	...	15	...	7.22
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	7.8	...

明治二十年五月

MAY. 1887.

風
WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	强最 Strongest. 方位 Directions.	强最 Strongest. 速力 Miles.
1	...	6	67.6	3	11.8	...	...	...	...	4	46.4	3	29.6	2	21.7	6	78.6	24	255.7	N.W.	20.7
2	...	14	82.9	9	56.8	1	4.3	...	...	...	...	...	...	...	...	...	...	24	144.0	N.	11.7
3	1	2	22.1	15	113.8	6	38.0	...	...	...	...	...	...	...	...	...	...	24	173.9	N.	20.5
4	...	2	7.1	7	58.9	7	69.7	...	...	3	28.7	...	...	2	6.9	3	8.2	24	179.5	E.	11.7
5	...	3	17.1	11	75.8	5	49.3	3	12.8	2	8.0	...	...	...	...	...	...	24	163.0	E.	10.9
6	...	6	32.6	3	12.8	...	...	10	49.4	5	15.7	...	...	...	...	..	...	24	110.5	S. E.	8.7
7	...	1	9.8	...	...	...	...	3	3 6	14	207.7	2	43.8	...	...	4	14.6	24	279.5	S.	*28.4
8	...	7	36.4	...	...	1	1.2	2	11.1	6	75.5	8	40.5	...	...	...	...	24	164.7	S.	15.4
9	3	3	19.6	...	...	1	5.2	2	13.0	8	80.1	3	2.4	...	...	4	17.4	24	137.7	S.	16.3
10	4	14	98.4	1	7.4	1	5.9	...	...	...	...	...	...	2	0.4	2	9.4	24	121.5	N.	10.5
11	...	3	21.7	7	58.1	3	21.6	11	61.0	...	...	...	...	...	...	...	...	24	162.4	N.E.	10.9
12	...	..	...	4	19.9	6	23.7	14	74.4	...	...	...	...	...	...	...	...	24	118.0	S.E.	9.6
13	...	13	90.5	8	27.7	...	...	1	5.0	...	...	...	...	...	...	2	19.4	24	142.6	N.W.	10.1
14	...	17	202.3	1	8.2	...	...	...	...	...	...	3	18.6	2	6.4	1	3.6	24	239.2	N.	14.5
15	...	...	...	...	...	...	...	...	...	7	95.0	9	103.1	8	31.6	...	...	24	229.7	S.	18.5
16	...	1	7.3	...	...	1	6.5	...	...	10	137.5	10	105.7	1	7.3	1	1.8	24	266.1	S.	24.6
17	...	2	16.4	9	72.1	6	53.4	7	78.3	...	...	..	...	...	...	...	...	24	220.2	S.E.	12.6
18	...	7	55.8	6	54.4	...	...	10	69.9	...	...	...	...	...	...	1	7.9	24	188.0	N.	11.4
19	...	5	14.0	2	7.0	1	6.6	3	20.2	13	169.8	...	...	...	...	...	...	24	217.6	S.	18.9
20	...	6	29.6	1	8.2	...	...	3	27.0	8	93.6	2	24.8	...	...	4	38.3	24	221.5	S.W.	21.3
21	1	2	2.4	...	...	...	...	...	...	15	59.9	1	4.0	5	12.7	...	...	24	79.0	S.	7.9
22	...	...	...	...	...	...	...	...	...	11	182.1	4	33.4	2	5.6	7	19.3	24	240.4	S.	23.7
23	...	4	22.4	6	52.9	6	53.7	1	10.6	...	...	...	...	4	14 0	3	17.7	24	171.3	N. E.	14.9
24	1	4	55.8	...	...	...	...	5	24.0	5	30.7	...	...	...	...	9	21.3	24	131.8	N.	17.5
25	...	10	86.7	14	215.5	...	...	...	...	...	...	...	...	...	...	...	...	24	302.2	N. E.	20.3
26	...	8	64.2	6	65.1	10	91.4	...	...	...	...	...	...	...	...	...	...	24	220.7	N. E.	12.4
27	...	...	...	5	10.7	4	11.9	4	19.2	10	95.5	...	...	1	2.7	...	...	24	140.0	S.	13.6
28	...	5	32.3	7	47.3	1	0.7	3	10.0	...	...	...	...	3	1.6	5	16.5	24	108.4	N. E.	8.3
29	1	12	105.3	9	51.8	2	1.8	...	...	...	...	...	...	...	...	...	...	24	158.9	N.	10.8
30	1	...	...	...	...	2	2.4	4	32.2	17	146.2	...	...	...	...	...	...	24	180.8	S.	16.0
31	...	...	...	...	...	...	...	10	43.2	14	107.7	...	...	...		...	...	24	150.9	S.	10.4
計合 Sums.	12	157	1200.3	134	1036.2	64	447.3	96	564.9	152	1580.1	45	405 9	32	111.0	52	274.0	744	5619.7	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.	28.4

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	75	69	60	48	57	56	62	60
2	92	70	63	62	67	72	78	84
3	88	92	87	77	90	87	95	95
4	97	98	73	61	62	70	80	83
5	83	85	78	64	65	69	75	77
6	93	87	72	58	58	65	83	96
7	98	99	98	96	98	96	93	82
8	78	74	60	56	55	57	87	93
9	89	86	73	72	70	78	94	85
10	94	90	84	76	93	96	97	99
11	91	79	70	64	67	73	70	75
12	82	86	64	59	55	68	76	92
13	94	98	98	87	85	87	93	94
14	92	94	96	94	83	83	84	86
15	93	83	48	44	37	57	74	71
16	83	85	63	58	52	63	73	86
17	78	66	52	48	55	60	73	74
18	80	85	69	56	53	63	76	88
19	68	96	72	58	58	73	78	82
20	89	96	98	95	87	92	63	70
21	84	78	53	59	65	70	93	98
22	97	98	80	77	74	86	84	91
23	95	94	85	76	87	90	98	94
24	97	98	73	64	50	73	75	85
25	96	94	75	61	63	70	76	78
26	85	84	68	59	60	71	81	81
27	83	85	73	67	72	76	83	91
28	95	91	89	93	93	95	90	99
29	99	99	98	96	98	93	96	98
30	99	97	84	75	69	78	87	90
31	94	96	93	84	86	90	95	96
平均 Means.	89	88	76	69	70	76	83	86

明治二十年五月

MAY. 1887.

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.302	0.290	0.351	0.349	0.400	0.349	0.288	0.263
2	0.273	0.249	0.286	0.348	0.371	0.367	0.351	0.351
3	0.365	0.377	0.404	0.399	0.397	0.357	0.324	0.285
4	0.258	0.277	0.307	0.311	0.334	0.323	0.321	0.308
5	0.285	0.297	0.306	0.351	0.353	0.321	0.318	0.313
6	0.324	0.311	0.317	0.324	0.328	0.330	0.386	0.407
7	0.399	0.430	0.512	0.554	0.570	0.594	0.511	0.400
8	0.324	0.330	0.377	0.427	0.399	0.360	0.421	0.388
9	0.367	0.343	0.419	0.537	0.529	0.472	0.483	0.462
10	0.422	0.425	0.446	0.421	0.418	0.424	0.403	0.412
11	0.375	0.346	0.324	0.335	0.335	0.345	0.315	0.325
12	0.339	0.348	0.351	0.345	0.336	0.364	0.388	0.425
13	0.421	0.413	0.424	0.453	0.489	0.454	0.449	0.437
14	0.415	0.409	0.412	0.418	0.419	0.388	0.378	0.361
15	0.342	0.306	0.362	0.400	0.349	0.401	0.428	0.386
16	0.425	0.449	0.498	0.543	0.424	0.454	0.480	0.516
17	0.443	0.342	0.330	0.342	0.331	0.321	0.353	0.343
18	0.340	0.356	0.342	0.355	0.379	0.400	0.410	0.424
19	0.335	0.397	0.433	0.456	0.401	0.457	0.465	0.496
20	0.528	0.564	0.601	0.673	0.622	0.611	0.336	0.353
21	0.338	0.329	0.413	0.494	0.533	0.459	0.303	0.472
22	0.433	0.427	0.501	0.560	0.531	0.546	0.511	0.503
23	0.473	0.487	0.479	0.524	0.516	0.424	0.425	0.391
24	0.369	0.370	0.404	0.407	0.373	0.444	0.374	0.377
25	0.378	0.371	0.391	0.373	0.375	0.358	0.317	0.296
26	0.299	0.293	0.322	0.346	0.342	0.369	0.364	0.349
27	0.345	0.370	0.386	0.403	0.434	0.453	0.470	0.462
28	0.457	0.459	0.475	0.537	0.539	0.512	0.516	0.529
29	0.524	0.518	0.531	0.550	0.564	0.520	0.512	0.511
30	0.511	0.516	0.572	0.626	0.607	0.572	0.570	0.578
31	0.568	0.605	0.635	0.622	0.620	0.633	0.648	0.661
平均 Means.	0.386	0.387	0.416	0.445	0.440	0.432	0.420	0.412

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	45.2	44.2	49.2	49.1	53.4	49.1	44.0	41.6
2	42.6	40.2	43.8	49.0	50.8	50.5	49.2	49.2
3	50.3	51.2	53.1	52.7	52.6	49.7	47.1	43.7
4	41.1	43.0	45.7	46.0	47.9	47.0	46.8	45.8
5	43.7	44.8	45.6	49.2	49.4	46.8	46.6	46.2
6	47.1	46.0	46.5	47.1	47.4	47.6	51.9	53.3
7	52.7	54.8	59.7	61.9	62.7	63.9	59.6	52.8
8	47.1	47.6	51.2	54.6	52.7	49.9	54.2	52.0
9	50.5	48.6	54.1	61.0	60.6	57.4	58.1	56.8
10	54.3	54.5	55.8	54.2	54.0	54.4	53.0	53.6
11	51.1	48.9	47.1	48.0	48.0	48.8	46.3	47.2
12	48.3	49.0	49.2	48.8	48.1	50.2	52.0	54.5
13	54.2	53.7	51.4	56.2	58.4	56.3	56.0	55.3
14	53.8	53.4	53.6	54.0	54.1	52.0	51.3	50.0
15	48.5	45.6	50.1	52.8	49.1	52.9	54.7	51.9
16	54.5	56.0	58.9	61.3	54.4	56.3	57.9	59.9
17	55.6	48.5	47.6	48.5	47.7	46.8	49.4	48.6
18	48.4	49.6	48.5	49.5	51.4	52.8	53.5	54.4
19	48.0	52.6	55.0	56.4	52.9	56.5	57.0	58.8
20	60.5	62.4	64.2	67.5	65.2	64.7	48.1	49.4
21	48.2	47.5	53.7	58.7	60.8	56.6	59.2	57.4
22	55.0	54.6	59.1	62.2	60.7	61.5	59.6	59.2
23	57.5	58.3	57.8	60.3	59.9	54.4	54.5	52.2
24	50.6	50.7	53.1	53.3	50.9	55.7	51.0	51.2
25	51.3	50.8	52.2	50.9	51.1	49.8	46.5	44.7
26	45.0	44.4	46.9	48.9	48.5	50.6	50.2	49.1
27	48.8	50.7	51.9	53.0	55.1	56.2	57.3	56.8
28	56.1	56.6	57.6	61.0	61.1	59.7	58.9	60.6
29	60.3	60.0	60.7	61.7	62.4	60.1	59.7	59.6
30	59.6	59.9	62.8	65.4	64.5	62.8	62.7	63.1
31	62.6	64.4	65.8	65.2	65.1	65.7	66.4	67.0
平均 Means.	51.4	51.4	53.4	55.1	54.9	54.4	53.7	53.1

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	53.0	53.9	63.4	69.5	69.2	65 0	56.8	55.3
2	45.0	50.0	55.5	62.0	62.0	59.5	56.0	54.0
3	53.7	53.4	57.3	59.8	55.6	53.5	48.6	45.0
4	42.0	43.6	54.0	59.0	60.6	56.8	53.0	50.9
5	48.5	49.0	52.3	61.7	61.5	57.0	54.3	53.2
6	49.0	49.5	55.7	62.0	62.3	59.3	57.0	54.7
7	53.3	55.2	60.3	63.0	63.3	65.2	60.5	58.5
8	54.0	56.0	65.2	71.3	69.8	65.7	58.0	54.0
9	53.5	52.6	63.0	70.3	70.8	64.2	60.0	61.2
10	56.2	57.2	61.0	62.0	56.0	55.6	54.0	54.0
11	53.5	55.5	56.7	60 2	58.7	57.7	56.0	55.0
12	53.7	53.4	61.7	63.5	64.5	61.0	59.5	57.0
13	55.8	54.3	55.0	60.0	63.0	60.3	58.1	56.8
14	56.2	55.0	54.8	55 7	59.2	57.0	56.0	54.0
15	50.4	50.3	66.2	76.4	78.1	69.1	63.0	61.8
16	59.4	60.6	72.0	77.1	73.0	69.8	66.9	64.3
17	62.8	59.8	65.7	69.0	64.2	60.8	58.0	56.7
18	54.3	54.0	59.8	65.8	69.4	65.9	61.0	58.0
19	58.7	53.8	64.5	71.8	68.5	65.5	64.1	64.3
20	63.8	63.7	64.7	69.1	69.2	67.2	60.8	59.2
21	53.0	54.2	68.8	71.0	70.7	66.9	61.3	58.0
22	56.0	55.2	65.6	69.8	69.4	66.0	64.5	62.0
23	58.8	60.0	62.2	68.0	64.0	57.3	55 1	54.0
24	51.6	51.3	62.0	66.0	70.5	64.8	59.2	55.5
25	52.5	53.6	60.1	64.5	63.9	59.8	54.0	51.6
26	49 2	49.4	57.6	63.6	62.7	60.0	56.0	55.0
27	53.8	55.0	60.3	64.0	64.0	64.0	62.5	59.5
28	57.4	59.3	61.0	63.2	63.1	61.0	60.1	61.0
29	60.5	60.2	61.3	62.8	63.0	62.0	60.3	60.7
30	60.0	60.8	67.7	74 0	75.8	69.7	66.7	66.0
31	64.6	65.7	68.0	70.5	69.5	68.7	68.0	68.1
平均 Means.	54.7	55.0	61.4	66.0	65.7	62.5	59.0	57.4

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.523	29.637	29.740	29.758	29.783	29.844	29.943	29.983
2	30.018	30.048	30.083	30.040	29.998	29.995	30.012	30.016
3	29.963	29.968	29.957	29.928	29.887	29.941	30.027	30.059
4	30.085	30.130	30.159	30.184	30.174	30.216	30.274	30.279
5	30.297	30.345	30.356	30.329	30.309	30.326	30.364	30.353
6	30.349	30.339	30.317	30.309	30.237	30.160	30.180	30.156
7	30.079	30.012	29.970	29.872	29.732	29.676	29.715	29.754
8	29.788	29.842	29.891	29.865	29.846	29.849	29.894	29.932
9	29.935	29.954	30.001	29.928	29.857	29.803	29.850	29.867
10	29.845	29.866	29.888	29.887	29.886	29.855	29.897	29.904
11	29.921	29.983	29.999	30.008	30.012	30.048	30.089	30.095
12	30.096	30.123	30.141	30.122	30.093	30.080	30.097	30.074
13	30.075	30.081	30.094	30.080	30.059	30.031	30.035	29.987
14	29.928	29.901	29.863	29.852	29.850	29.877	29.923	29.922
15	29.932	29.966	30.007	29.976	29.949	29.928	29.941	29.933
16	29.907	29.900	29.890	29.822	29.713	29.711	29.834	29.806
17	29.864	29.947	29.974	29.949	29.937	29.970	30.035	30.028
18	30.020	30.041	30.050	30.025	29.990	30.006	30.098	30.120
19	30.138	30.159	30.166	30.155	30.113	30.095	30.073	30.009
20	29.926	29.831	29.724	29.570	29.588	29.646	29.740	29.752
21	29.803	29.850	29.896	29.870	29.832	29.825	29.870	29.864
22	29.857	29.867	29.864	29.814	29.728	29.680	29.715	29.721
23	29.705	29.714	29.715	29.689	29.661	29.688	29.777	29.780
24	29.777	29.825	29.857	29.855	29.836	29.835	29.915	29.962
25	29.971	30.011	30.054	30.070	30.016	30.046	30.115	30.121
26	30.116	30.133	30.152	30.126	30.082	30.086	30.137	30.132
27	30.113	30.129	30.136	30.112	30.057	30.056	30.061	30.081
28	30.045	30.041	30.039	30.023	29.958	29.920	29.898	29.850
29	29.797	29.808	29.805	29.744	29.748	29.683	29.710	29.730
30	29.740	29.777	29.789	29.789	29.791	29.806	29.879	29.880
31	29.859	29.863	29.870	29.861	29.822	29.826	29.859	29.848
平均 Means.	29.951	29.970	29.982	29.955	29.921	29.920	29.966	29.968

氣象觀測之月報
東京海軍觀象臺

MONTHLY REPORT
OF THE
METEOROLOGICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暑鍼 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點溫度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100)	無氣中日溫度 高極 Vacuum solar radiation Max.	日溫度 高極 Solar radiation Max.	地溫度 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.776	29.983	*29.523	60.8	72.5	51.5	47.0	0.325	61	137.3	97.0	45.5
2	30.026	30.083	29.995	55.5	62.7	45.0	46.9	0.325	74	107.9	77.0	39.9
3	29.966	30.059	29.887	53.4	59.9	44.0	50.1	0.364	89	85.3	70.2	* 36.0
4	30.188	30.279	30.085	52.5	62.1	* 40.4	45.4	0.305	78	133.5	92.0	38.7
5	30.335	* 30.364	30.297	54.7	64.0	47.7	46.5	0.318	75	136.5	96.8	45.3
6	30.256	30.349	30.156	56.2	64.9	48.0	48.4	0.341	77	136.0	95.5	46.0
7	29.851	30.079	29.676	59.9	65.2	52.5	58.5	0.496	95	127.5	85.5	51.2
8	29.863	29.932	29.788	61.8	72.0	50.8	51.2	0.378	70	141.5	100.8	42.7
9	29.899	30.001	29.803	62.0	72.0	50.6	55.9	0.452	81	138.3	100.1	44.8
10	29.879	29.904	29.845	57.0	63.0	53.0	54.2	0.421	91	73.5	67.5	50.3
11	30.019	30.095	29.921	56.7	61.3	52.7	48.2	0.338	74	103.9	78.3	51.0
12	30.103	30.141	30.074	59.3	66.0	52.0	50.0	0.362	73	122.4	89.8	48.3
13	30.055	30.094	29.987	57.9	66.2	53.5	55.6	0.443	92	136.9	95.0	36.5
14	29.890	29.928	29.850	56.0	59.5	53.0	52.8	0.400	89	83.5	66.2	47.0
15	29.954	30.007	29.928	64.6	* 80.1	48.8	50.7	0.372	63	143.0	103.0	41.0
16	29.823	29.907	29.711	69.1	77.3	56.5	57.4	0.474	70	143.0	* 103.5	49.5
17	29.952	30.035	29.864	62.1	69.2	56.0	49.1	0.351	63	139.5	97.8	51.0
18	30.014	30.120	29.990	61.0	71.5	53.2	51.0	0.376	71	136.7	96.8	48.0
19	30.114	30.166	30.069	63.9	71.8	50.1	54.7	0.430	73	142.0	101.5	46.1
20	29.722	29.926	29.570	64.7	71.3	58.7	60.3	0.536	86	100.0	81.0	51.8
21	29.851	29.896	29.803	63.0	72.8	50.8	55.3	0.443	75	141.0	101.2	43.6
22	29.781	29.867	29.680	63.6	71.7	53.4	59.0	0.502	86	126.0	92.0	48.5
23	29.716	29.780	29.661	59.9	71.7	54.0	56.9	0.465	90	142.8	101.0	51.0
24	29.858	29.962	29.777	60.1	71.5	48.9	52.1	0.390	77	143.3	100.8	42.0
25	30.051	30.121	29.971	57.4	65.7	50.7	49.7	0.357	77	137.2	93.3	44.5
26	30.121	30.152	30.082	56.7	66.3	46.7	48.0	0.336	74	137.0	97.3	41.0
27	30.093	30.136	30.056	60.4	65.8	52.7	53.7	0.415	79	115.1	88.0	49.0
28	29.972	30.045	29.850	60.8	64.1	56.6	59.1	0.502	94	85.2	70.2	52.8
29	29.753	29.808	29.683	61.4	63.2	59.1	60.6	0.529	97	80.6	68.0	53.9
30	29.806	29.880	29.740	67.6	76.1	59.2	62.6	0.569	85	* 147.0	103.0	57.0
31	29.851	29.870	29.822	67.9	71.2	63.5	65.3	0.624	92	105.0	85.5	45.5
平均 Means.	29.954	...	...	60.2	...	...	53.4	0.417	80	...	...	...
至極 Max. & Min.	...	30.364	29.523	...	80.1	40.4	...	...	...	147.0	103.5	36.0

凡例

一風雨鍼ハ氷點及海面ニ改正ス
一寒暑鍼ハ都テ華氏ノ度表ヲ用
フ
一露點、濕氣、水氣張力、ハ燥濕兩球
寒暑鍼ノ實驗ヨリ算出ス
一風ノ方向及速力ハ自記驗風儀
ヲ以テ之ヲ測ル而シテ方向ハ
八點ニ分チ速力ハ英里ヲ以テ
算ス
一天候ノ表中降雨、降雪、靄霧、雲ノ
種類ハ悉皆觀望ノ時數ヲ掲ゲ
陰部ハ一日間全陰ヲ十トシ他
ハ之ニ比例ス
又雨雪ノ水積ハ毎午前九時ニ
實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差
及地平磁氣力ハ連月兩回之ヲ
觀測ス
一此觀測ノ用器ハ偏差儀傾差儀
及「ユーニファイラ」磁氣儀ナリ
一偏針角ノ觀測ニ於テ兩磁氣中
心ノ相距ハ一、三英尺トス
一搖振ノ觀測ニ用フル磁氣ノ
尺度一劃分ノ價ハ二分、三七ナ
リ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

職	官等	氏名
觀象臺長	海軍五等技師	中川將行 閲
觀測士		
觀測助手	海軍二等技手	伊藤直温
同	海軍屬	嘉納謙作
同	海軍屬	日比翁助
同	海軍屬	白井正信
同	海軍八等技手	小澤兼藏
同	海軍十等技手	永江董

(Signed) Director.

M. Nakagawa.

Observer........................

Assistant.

N. Itō.

„ K. Kanō.

„ O. Hibi.

„ M. Shirai.

„ K. Ozawa.

„ T. Nagaye.

REMARKS.

Day.	
1	B. in a.m.; *d.* in p.m.; *l. h.* at 8 p. m.
2	C.; R. after 8.30 a.m.
3	R. in a.m.; C. in p.m.; *f. p.* in night
4	*f. p.*; B. C. 10 a.m.; — 8 p.m.; N. W. w_2 after 10 a.m.
5	*f. p.*; *d.* after 10 p.m.
6	*d.*; *l. h.* at 8 p.m.
7	C.; B. C. at times in p.m.; R. after 9.10 p.m.
8	C.; R. at times.
9	D.; *f. p.* after 5 a.m.; S. w_2 in day.
10	*f. p.*; *d.* after 8 p.m.
11	C.; R. after 9.30 p.m.
12	R.; *d.* after 1.30 p.m.; B. in night.
13	*d.* in a.m.; D. at 11 a.m.; B. in p.m.
14	*d.*; M. in morning; S. w_3 in p.m.
15	*d.*; *f. p.* after 9 p.m.; S. w_2 till 7 a.m.
16	*f. p.* M. till 8 a.m.; E. at 3.45 a.m.
17	*f. p.* in a.m.; *d.* in p.m.; S. w_2 in p m.
18	*d.*, B. at times.
19	C.
20	C.
21	*f. p.*
22	C.; R. at times.
23	R.; C., with R. at times after 1.30 p.m.
24	B.; *f. p.* after 6 p.m.; L. in the N.E. at 7 p.m.
25	*f. p.*; in a.m.; C. in p.m.; R. after 8 p.m.
26	*d.* in a.m.; *f. p.* in p.m.
27	*f. p.*; E. at 9.30 p.m.
28	B.; M. in morning.
29	*d.*; *f. p.* until day break; S. w_2 after 11 a.m.
30	C., with R. at times; *f. p.* after 6 p.m.; *r. b.* at 6 p.m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1 = slight, w_5 = strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日 午前晴午後薄陰同八時過月暈アリ

二日 陰午前八時三十分頃ヨリ降雨

三日 午前降雨午後陰夜來漸々快晴

四日 快晴午前十時過ヨリ午後八時頃マデ半晴午前十時後北西風稍强

五日 快晴午後十時過薄陰

六日 薄陰午後八時過月暈アリ

七日 陰午後時々半晴同九時十分頃ヨリ降雨

八日 陰時々微雨

九日 午後五時頃マテ微雨後漸々快晴晝間南風稍强

十日 快晴午後八時過薄陰

十一日 陰午後九時三十分頃ヨリ降雨

十二日 午後一時三十分頃マテ降雨後薄陰夜來漸々晴

十三日 午前薄陰同十一時頃暫時疎雨シ午後晴

十四日 薄陰朝霧濃厚午後南風强

十五日 薄陰午後九時頃ヨリ快晴午前七時頃マテ南風稍强

十六日 快晴午前八時頃マテ濃霧午前三時四十五分頃地震ス

十七日 午前快晴午後薄陰正午過南風稍强

十八日 薄陰時々晴

十九日 晝夜陰天

二十日 續テ陰天

廿一日 快晴

廿二日 陰時々降雨

廿三日 午後一時三十分頃マテ降雨後陰天時々復降雨

廿四日 晴午後六時頃ヨリ快晴同七時過北東ニ電光ス

廿五日 午前快晴午後陰同八時頃ヨリ降雨

廿六日 午前薄陰午後漸々快晴

廿七日 晝夜快晴午後九時三十分頃地震ス

廿八日 晴朝來濃霧アリ

廿九日 拂曉前快晴爾後薄陰午前十一時後南風稍强

三十日 陰天時々降雨午後六時頃虹ヲ現シ後漸々快晴

地平磁氣力
HORIZONTAL INTENSITY.

10th Beginning / Ending time $3^h\ 30^m$ / 4 40 P. M. 十日午後三時三十分ヨリ同四時四十分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	62 28 40	28 0	28 20				
	W.					2	55 53 0	52 20	52 40
	E.	3	62 29 0	28 20	28 40				
	W.					4	55 53 0	52 20	52 40
	E.	5	62 29 10	28 30	28 50				
平均 Means			62° 28′ 36″.7				.... 55° 52′ 40″.0		
西 West.	W.					6	55 49 20	48 40	49 0
	E.	7	62 22 0	21 20	21 40				
	W.					8	55 49 20	48 40	49 0
	E.	9	62 22 20	21 30	21 55				
	W.					10	55 49 30	48 50	49 10
平均 Means.			62° 21′ 47″.5				.... 55° 49′ 3″.3		

平均温度 Mean Temperature $t = 66^\circ.3$ fah.
偏針角 Angle of Deflection $u = 3^\circ\ 17'\ 10''.2$

搖振時 Oscillations.

振数 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	27	21.8	65.9	0	60.0		
10	4	28	6.5					
20	4	28	51.0					
31	4	29	40.5					
41	4	30	25.0					
51	4	31	9.4					
100	4	34	48.9				7	27.1
110	4	35	33.4					26.9
120	4	36	17.9					26.9
131	4	37	6.9					26.4
141	4	37	51.6					26.6
151	4	38	35.9	71.5	13.8	45.5		26.5
平均 Means.				68.7	....		7	26.73

差捩拗 Mean effect of 90° of Torsion $v = 2.26$
時儀日差 Daily rate $s = 0^s.46$ losing.

成果 Resulting absolute value $X = 6.3260$

26th Beginning / Ending time $4^h\ 20^m$ / 5 20 P. M. 廿六日午後四時二十分ヨリ同五時二十分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	180 21 20	20 30	20 55				
	W.					2	173 47 0	46 10	43 35
	E.	3	180 22 20	21 30	21 55				
	W.					4	173 47 10	46 20	46 45
	E.	5	180 22 40	22 0	22 0				
平均 Means.			180° 21′ 36″.7				.... 173° 46′ 40″.0		
西 West.	W.					6	173 44 20	43 20	43 50
	E.	7	180 17 20	16 30	16 55				
	W.					8	173 44 30	43 30	44 0
	E.	9	180 16 0	15 10	15 35				
	W.					10	173 44 0	43 0	43 30
平均 Means.			180° 16′ 15″.0				.... 173° 43′ 46″.7		

平均温度 Mean Temperature $t = 65^\circ.4$ fah.
偏針角 Angle of Deflection $u = 3^\circ\ 16'\ 51''.3$.

搖振時 Oscillations.

振数 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	5	1	16.4	72.5	4.7	54.2		
10	5	2	1.2					
20	5	2	46.0					
31	5	3	34.9					
41	5	4	20.0					
51	5	5	4.5					
100	5	8	43.0				7	26.6
110	5	9	27.8					26.6
120	5	10	12.5					26.5
131	5	11	2.0					27.1
141	5	11	46.8					26.8
151	5	12	31.0	74.0	16.3	41.3		26.5
平均 Means.				73.3	....		7	26.68

差捩拗 Mean effect of 90° of Torsion $v = 2.23$
時儀日差 Daily rate $s = 0^s.79$ losing.

成果 Resulting absolute value $X = 6.3325$

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差 Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 7.7	5	4 8.5	9	4 10.5	13	4 6.5	17	4 6.7	21	4 5.2	25	4 3.4	29	4 7.9
2	4 6.9	6	4 8.6	10	4 5.9	14	4 4.6	18	4 5.2	22	4 4.0	26	4 4.2	30	4 6.3
3	4 8.1	7	4 8.9	11	4 5.8	15	4 3.5	19	4 5.7	23	4 4.4	27	4 6.2		
4	4 7.8	8	4 9.6	12	4 6.8	16	4 1.8	20	4 4.8	24	4 3.9	28	4 4.7		

平均 Mean = 4° 6.′14

磁氣傾差 Magnetic Inclination.

10th. Beginning / Ending time 5^h 25^m / 5 52 P. M. 十日午後五時二十五分ヨリ同五時五十二分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 39	49 37	49 58	49 55	49 36	49 34	49 39	49 35	49 41	49 41	49 10	49 11	50 7	50 8	49 34	49 38
49 41	49 40	49 56	49 53	49 38	49 35	49 32	49 29	49 53	49 53	49 13	49 15	50 6	50 8	49 31	49 34
49 40.0	49 38.5	49 57.0	49 54.0	49 37.0	49 34.5	49 35.5	49 32.0	49 47.0	49 47.0	49 11.5	49 13.0	50 6.5	50 8.0	49 32.5	49 36.0
49 39.3		49 55.5		49 35.8		49 33.8		49 47.0		49 12.3		50 7.3		49 34.3	
49 47.4				49 34.8				49 29.7				49 50.8			
49 41.1								49 40.3							

成果 Resulting Dip = 49° 40.′7

26th. Beginning / Ending time 5^h 30^m / 5 58 P. M. 二十六日午後五時三十分ヨリ同五時五十八分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 50	49 48	49 58	49 56	49 42	49 40	49 14	49 12	49 40	49 40	49 13	49 15	49 57	49 58	49 37	49 32
49 47	49 46	50 49	49 47	49 43	49 43	49 15	49 13	49 43	49 44	49 13	49 15	49 53	49 55	49 39	49 35
49 48.5	49 47.0	49 53.5	49 51.5	49 42.5	49 41.5	49 14.5	49 12.5	49 41.5	49 42.0	49 13.0	49 15.0	49 55.0	49 56.5	49 38.0	49 33.5
49 47.8		49 52.0		49 42.0		49 13.5		49 41.8		49 14.0		49 55.8		49 35.8	
49 49.9				49 27.8				49 27.9				49 45.8			
49 38.9								49 36.9							

成果 Resulting Dip = 49° 37.′9

天候
WEATHER.

日次 Date	卷雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow	霧 Fog	全晴 Clear	陰部 Obscured Part.	雨雪水量 Amount of Rain & Snow.
													in
1	2	...	...	...	4	2	...	...	...	...	...	6.3	...
2	...	1	2	...	...	...	...	5	...	...	...	10.0	...
3	...	2	2	...	...	1	1	2	...	...	...	7.8	1.41
4	...	...	...	5	1	...	...	...	...	...	2	3.5	...
5	1	...	1	2	2	...	...	...	...	...	2	1.5	...
6	3	...	...	...	5	...	...	...	...	...	...	8.8	...
7	...	...	...	2	2	2	1	1	...	...	...	8.4	...
8	...	...	2	...	1	1	...	4	...	...	...	10.0	0.09
9	...	4	...	1	1	1	...	...	...	...	1	3.1	0.07
10	1	...	...	2	1	...	...	...	...	...	4	3.0	...
11	...	...	3	2	...	1	1	1	...	...	...	9.9	...
12	...	1	...	1	...	2	...	4	...	...	...	7.8	0.59
13	...	...	...	2	3	2	...	...	...	...	1	4.4	0.16
14	1	1	...	4	...	...	...	...	...	2	...	9 0	...
15	...	...	...	5	...	1	1	...	...	...	1	7 0	...
16	...	...	...	...	1	...	...	...	...	2	5	1.6	...
17	...	...	...	3	2	2	...	...	...	...	1	5.8	...
18	1	...	3	2	2	...	...	...	...	...	...	7.4	...
19	2	...	2	1	1	1	1	...	...	...	...	9.6	...
20	...	...	3	...	...	5	...	...	...	...	...	10.0	...
21	1	1	2	1	...	...	1	...	...	...	2	2.0	...
22	...	...	2	1	...	4	...	1	...	...	...	9.9	...
23	...	...	1	...	...	1	...	6	...	...	...	10.0	0.22
24	2	2	1	...	1	...	1	...	...	...	1	2.6	0.08
25	...	...	1	3	1	...	...	2	...	...	1	6.6	...
26	...	...	...	7	...	...	...	...	...	...	1	5.3	0.17
27	3	...	...	2	...	...	...	...	...	...	3	0.9	...
28	...	...	...	...	4	...	...	...	...	3	1	5.3	...
29	2	...	1	2	1	1	...	...	...	...	1	8.0	...
30	...	2	...	3	...	...	...	2	...	...	1	7.1	0.26
合計 Sums.	19	14	26	51	33	27	7	28	...	7	28	...	3.05
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	6.4	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	4	13.7	1	8.1	2	7.4	11	43.7	...	...	...	...	1	4.2	5	19.9	24	97.0	S.E.} N.E.}	8.1
2	...	18	203.4	3	17.6	2	16.4	...	...	...	...	...	...	...	...	1	10.8	24	248.2	N.	17.6
3	2	8	81.2	1	1.4	...	...	1	2 4	...	...	...	...	...	...	12	154.3	24	239.3	N.W.	20.2
4	...	3	37.1	...	...	...	...	...	...	...	...	...	...	8	49.2	13	261.9	24	348.2	N.W.	25.2
5	...	6	76.8	...	...	...	...	3	27.2	9	105.9	...	...	...	...	6	85.1	24	295.0	N.W.	17.5
6	...	1	0.3	...	...	...	...	4	32.2	7	54.5	6	38.3	3	4.7	3	7.6	24	137.6	S. W.	14.6
7	...	9	72.5	8	82.3	3	40.2	1	6.7	1	6.8	...	...	...	...	2	10.7	24	219.2	E.	17.2
8	1	12	75.5	2	15.5	...	...	...	...	...	...	...	...	...	...	9	42.0	24	133.0	N.	9.5
9	1	6	77.6	...	...	...	...	..	...	10	222.4	2	31.9	1	1.7	4	15.8	24	349.4	S.	28.5
10	...	5	43.6	...	...	...	...	1	6.5	2	28.6	5	62.7	3	18.0	8	77.2	24	236.6	S.	15.9
11	...	14	82.1	...	...	...	..	...	...	...	...	...	...	...	...	10	21.5	24	103.6	N.	8.5
12	...	17	117.7	1	3.7	3	20.8	1	1.8	...	...	...	...	...	...	2	14.7	24	158.7	N.	19.4
13	...	6	19.6	4	6.9	2	17.6	6	33.2	3	13.7	..	...	...	...	3	15.7	24	106.7	E.	10.0
14	...	6	15.2	...	...	...	...	3	18.3	12	317.4	1	1.3	2	1.3	...	...	24	353.5	S.	* 36.0
15	...	2	7.9	1	9.1	...	...	3	29.1	12	205.2	4	23.1	1	6.0	1	5.0	24	285.4	S.	28.3
16	...	4	10.3	2	5.1	...	...	...	...	11	73.0	1	2.3	3	6.0	3	12.5	24	109.2	S.	14.0
17	...	4	8.2	...	...	...	...	1	7.0	10	199.1	5	110.6	...	...	4	16.9	24	341.8	S.	28.3
18	...	3	21.3	5	52.5	5	61.9	1	10.7	2	19.8	3	68.2	...	...	5	20 9	24	255 3	S. W.	26.8
19	5	6	21.2	...	...	...	...	1	2.5	10	64.5	...	...	...	...	2	15.5	24	103.7	S.	8.9
20	...	11	109.8	13	137.3	...	...	...	...	...	...	...	...	...	...	...	...	24	247.1	N. E.	16.1
21	...	8	67.3	...	...	...	...	2	12.7	10	113.6	...	...	..	...	4	24.5	24	218.1	S.	25.6
22	...	10	59.3	7	50.4	4	41.7	...	...	...	...	...	...	...	...	3	5.4	24	156.8	N.	13.6
23	...	2	4.2	12	88.2	7	24.5	...	...	...	...	...	...	...	...	3	19.4	24	136.3	N. E.	10.8
24	...	7	39.2	7	28.7	...	...	2	17.4	4	24.6	2	21.4	1	5.0	1	6.1	24	142.4	S.W.	12.3
25	...	8	49.0	...	...	2	13.7	11	112.7	1	13.1	...	...	...	...	2	14.0	24	202.5	S. E.	14.0
26	...	9	59.3	3	18.6	6	22.6	6	48.9	...	...	...	...	...	...	...	...	24	149.4	S. E.	10.8
27	...	4	15.1	1	2.8	...	...	4	32.8	11	97.0	1	2 0	...	...	3	7.0	24	156.7	S.	16.4
28	...	2	4.4	1	6.4	1	9.0	5	36.5	5	24.1	3	19.9	7	12.9	...	...	24	112.7	S. E.	10.0
29	...	...	...	...	...	...	...	...	...	17	308.5	7	11.0	...	...	...	...	24	319.5	S W.	28.7
30	...	...	...	...	...	...	...	...	...	23	425.5	1	15.7	...	...	...	...	24	441.2	S.	31.5
計合 Sums.	9	195	1392.8	72	534.6	37	275.8	67	482.3	160	2317.3	41	407.9	30	109.0	109	884.4	720	6404.1	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	S.	36.0

濕氣百分數
HUMIDITY.
(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	88	84	63	57	45	69	83	69
2	67	80	84	95	94	99	96	98
3	84	98	67	53	48	43	48	67
4	54	58	45	41	43	53	55	51
5	52	52	47	43	50	60	72	74
6	85	91	56	43	41	49	54	76
7	89	88	77	62	69	78	87	94
8	100	99	94	86	84	94	98	95
9	97	99	68	62	60	72	47	57
10	60	62	46	48	45	60	58	80
11	77	71	69	72	75	82	85	92
12	92	99	98	100	92	46	53	61
13	65	60	47	57	52	66	84	95
14	99	100	84	80	52	68	71	82
15	88	99	70	63	64	58	55	82
16	91	92	67	55	45	57	54	67
17	79	81	72	66	61	62	69	72
18	82	90	71	46	53	63	80	89
19	93	92	78	73	71	85	94	96
20	89	76	69	51	56	69	70	61
21	71	64	56	63	66	82	92	96
22	93	78	62	53	56	75	83	89
23	89	94	89	72	76	79	85	93
24	95	96	55	59	46	63	67	83
25	91	93	63	51	59	68	78	91
26	95	94	72	63	66	71	80	90
27	95	96	71	58	53	75	90	98
28	98	99	84	63	58	75	92	93
29	93	93	71	60	63	77	87	82
30	87	88	94	91	96	96	79	85
平均 Means.	85	86	70	63	61	70	75	79

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.225	0.204	0.238	0.238	0.269	0.331	0.342	0.262
2	0.240	0.236	0.236	0.256	0.249	0.246	0.246	0.256
3	0.225	0.255	0.225	0.204	0.179	0.146	0.142	0.149
4	0.132	0.133	0.158	0.167	0.168	0.155	0.142	0.132
5	0.130	0.127	0.158	0.176	0.212	0.220	0.250	0.245
6	0.237	0.208	0.197	0.250	0.265	0.264	0.220	0.261
7	0.292	0.273	0.274	0.315	0.336	0.311	0.296	0.292
8	0.289	0.295	0.298	0.333	0.346	0.338	0.329	0.319
9	0.325	0.371	0.409	0.437	0.470	0.427	0.214	0.199
10	0.189	0.190	0.225	0.284	0.293	0.311	0.226	0.285
11	0.253	0.224	0.255	0.274	0.312	0.339	0.313	0.323
12	0.334	0.409	0.365	0.433	0.431	0.245	0.238	0.214
13	0.203	0.187	0.218	0.290	0.313	0.324	0.356	0.315
14	0.316	0.285	0.356	0.385	0.334	0.362	0.362	0.428
15	0.449	0.492	0.477	0.473	0.409	0.364	0.306	0.367
16	0.342	0.333	0.386	0.424	0.373	0.418	0.305	0.288
17	0.275	0.262	0.386	0.464	0.436	0.396	0.415	0.416
18	0.473	0.421	0.449	0.396	0.479	0.404	0.434	0.451
19	0.431	0.425	0.462	0.470	0.489	0.539	0.526	0.526
20	0.454	0.379	0.348	0.288	0.301	0.344	0.316	0.270
21	0.267	0.239	0.293	0.385	0.427	0.492	0.479	0.479
22	0.451	0.339	0.297	0.293	0.322	0.292	0.311	0.316
23	0.286	0.270	0.272	0.237	0.251	0.266	0.269	0.264
24	0.266	0.241	0.221	0.279	0.249	0.262	0.242	0.241
25	0.244	0.238	0.273	0.294	0.285	0.292	0.297	0.324
26	0.321	0.319	0.308	0.345	0.369	0.356	0.334	0.321
27	0.302	0.284	0.369	0.353	0.353	0.409	0.422	0.410
28	0.328	0.330	0.439	0.480	0.489	0.489	0.494	0.434
29	0.374	0.377	0.480	0.485	0.470	0.477	0.498	0.491
30	0.496	0.503	0.539	0.548	0.564	0.601	0.465	0.437
平均 Means.	0.306	0.295	0.321	0.342	0.348	0.347	0.326	0.324

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	37.6	35.0	39.1	39.0	42.2	47.7	48.5	41.5
2	39.3	38.8	38.8	40.9	40.2	39.9	39.9	40.9
3	37.5	40.8	37.5	35.0	31.8	26.8	26.1	27.3
4	24.5	24.7	28.8	30.0	30.2	28.3	26.2	24.5
5	24.1	23.6	28.7	31.4	36.0	37.0	40.3	39.8
6	38.9	35.6	34 2	40.3	41.8	41.7	37.0	41.4
7	44.3	42.6	42.7	46.3	48.1	46.0	44.7	44.3
8	44.1	44.6	44.9	47.8	48.9	48.2	47.5	46.7
9	47.2	50.8	53.4	55.3	57.3	54.6	36.2	34.4
10	33.2	33.3	37.5	43.6	44.4	46.0	37.7	43.7
11	40.6	37.4	40.8	42.7	46.1	48.3	46.2	47.0
12	47.9	53.4	50.3	55.0	54.9	39.8	39.1	36.3
13	34.9	32.9	36.8	44.2	46.2	47.1	49.6	46.3
14	46.4	43.7	49.6	51.8	47.9	50.1	50.1	54.7
15	56.0	58.6	57.7	55.3	53.4	50.2	45.6	50.5
16	48.5	47.8	51.9	54.4	50.9	54.0	45.5	44.0
17	42.8	41.5	51.9	56.9	55.2	52.5	53.8	53.9
18	57.5	54.2	56.0	52.5	57.8	53.1	55.1	56.1
19	54.9	54.5	56.8	57.3	58.4	61.1	60.4	60.4
20	56.3	51.3	49.0	44.0	45.1	48.7	46.4	42.3
21	42.0	39.2	44.9	51.8	54.6	58.6	57.8	57.8
22	56.1	48.0	44.8	44.4	46.9	44.3	46.0	46.4
23	43.8	42.3	42.5	38.9	40.4	41.9	42.2	41.7
24	41.9	39.4	37.1	43.2	40.2	41.5	39.8	39.4
25	39.7	39.1	42.6	44.5	43.7	44.3	44.8	47.1
26	46.8	46 7	45.8	48.8	50.6	49.6	48.0	46.8
27	45.2	43.6	50.6	49.4	49.4	53.4	54.3	53.5
28	47.4	47.6	55.4	57.9	58.4	58.4	58.7	55 1
29	51.0	51.2	57.9	58.2	57.3	57.7	58 9	58.5
30	58.8	59.2	61.1	61.6	62.4	64.2	57.0	55.3
平均 Means.	44.3	43.4	45.6	47.4	48.0	47.8	46.1	45.9

寒暑鍼

THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	41.0	39.4	51.3	53.7	63.3	57.8	53.5	52.0
2	50.0	44.8	43.2	42.2	41.8	40.1	40.8	41.3
3	42.0	41.2	48.0	51.6	51.0	48.3	44.5	37.0
4	39.8	37.9	49.5	53.0	52.0	44.4	40.9	41.0
5	39.9	39.3	48.0	53.2	54.2	50.3	48.6	47.8
6	43.1	38.0	49.2	63.7	65.8	61.0	53.5	48.8
7	47.5	46.0	49.7	59.3	58.7	52.8	48.5	46.0
8	44.1	45.0	46.6	52.2	53.7	49.8	48.1	48.0
9	48.0	51.2	64.0	69.0	71.8	63.9	56.0	49.2
10	46.5	45.5	58.2	63.7	65.9	60.0	52.0	49.7
11	47.0	46.0	50.6	51.6	54.0	53.5	50.7	49.3
12	50.0	53.6	50.9	55.0	57.0	60.8	56.5	49.2
13	46.0	46.3	57.0	59.8	64.0	58.3	54.2	47.8
14	46.8	43.9	54.4	57.9	66.0	60.7	59.5	60.3
15	59.6	59.0	68.0	68.3	66.1	65.8	62.0	56.0
16	51.1	50.1	63.0	71.5	74.5	69.8	62.2	54.8
17	49.0	47.2	61.1	69.0	69.6	65.9	64.2	63.0
18	63.0	57.1	65.7	74.9	76.5	66.3	61.3	59.5
19	57.0	56.8	63.8	66.3	68.4	65.8	62.1	61.5
20	60.1	59.0	59.3	62.0	61.0	59.0	56.1	55.6
21	51.0	51.0	60.8	64.5	66.5	64.3	60.1	58.7
22	58.0	54.9	57.5	61.5	61.8	52.0	50.9	49.5
23	47.0	44.0	45.5	47.7	48.0	47.8	46.2	43.7
24	43.2	40.5	53.1	58.0	60.3	54.0	50.0	44.0
25	42.1	40.9	55.2	63.0	58.0	54.9	51.5	49.8
26	48.1	48.4	55.0	61.5	62.2	58.9	53.9	49.5
27	46.7	44.7	60.0	64.5	67.8	61.1	57.2	53.9
28	48.0	47.8	60.3	71.3	74.0	66.5	60.8	57.0
29	53.0	53.6	67.7	73.0	70.5	65.0	63.0	64.0
30	62.7	62.7	62.9	65.0	63.7	65.5	63.6	60.0
平均 Means.	49.0	47.9	56.0	60.9	62.3	58.1	54.4	51.6

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.906	29.937	29.961	29.961	29.923	29.947	30.015	30.047
2	30.038	30.027	29.991	29.872	29.710	29.541	29.447	29.340
3	29.306	29.305	29.289	29.266	29.246	29.310	29.384	29.420
4	29.424	29.475	29.550	29.595	29.664	29.783	29.878	29.964
5	29.968	30.058	30.125	30.118	30.091	30.105	30.110	30.081
6	30.044	30.052	30.049	29.971	29.914	29.895	29.923	29.919
7	29.919	29.935	29.965	29.967	29.941	29.990	30.060	30.102
8	30.084	30.116	30.138	30.102	30.060	30.052	30.049	30.008
9	29.944	29.885	29.819	29.754	29.672	29.720	29.859	29.906
10	29.967	29.998	30.054	30.048	30.028	30.078	30.123	30.105
11	30.138	30.160	30.173	30.129	30.060	30.030	30.042	29.985
12	29.889	29.735	29.595	29.482	29.407	29.484	29.639	29.742
13	29.790	29.851	29.889	29.873	29.859	29.877	29.941	29.895
14	29.951	29.974	29.964	29.884	29.769	29.759	29.726	29.694
15	29.642	29.616	29.601	29.552	29.503	29.523	29.616	29.690
16	29.742	29.776	29.817	29.822	29.833	29.892	29.964	29.982
17	29.950	29.947	29.963	29.881	29.766	29.741	29.788	29.729
18	29.655	29.684	29.762	29.768	29.809	29.863	29.932	29.930
19	29.917	29.904	29.919	29.889	29.869	29.877	29.927	29.916
20	29.922	29.947	29.981	29.964	29.914	29.893	29.906	29.815
21	29.775	29.794	29.819	29.793	29.710	29.678	29.705	29.721
22	29.710	29.765	29.815	29.818	29.779	29.833	29.858	29.868
23	29.836	29.898	29.916	29.917	29.892	29.933	30.000	30.030
24	30.024	30.065	30.135	30.142	30.129	30.163	30.261	30.285
25	30.301	30.341	30.360	30.329	30.285	30.294	30.316	30.323
26	30.301	30.309	30.308	30.294	30.238	30.234	30.293	30.280
27	30.245	30.257	30.239	30.209	30.147	30.128	30.144	30.141
28	30.136	30.174	30.192	30.176	30.132	30.106	30.117	30.135
29	30.129	30.157	30.156	30.129	30.100	30.120	30.143	30.101
30	30.087	29.997	29.937	29.844	29.700	29.582	29.559	29.480
平均 Means.	29.925	29.938	29.949	29.918	29.872	29.881	29.924	29.921

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暑鍼 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點溫度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日射溫度 高極 Vacuum solar radiation Max.	日溫度 高極 Solar radiation Max.	地溫度 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.962	30.047	29.906	51.5	64.9	38.0	41.3	0.264	70	127.1	88.2	32.0
2	29.746	30.038	29.340	43.0	53.7	39.5	39.8	0.246	89	57.0	53.1	36.8
3	29.316	29.420	* 29.246	45.5	52.0	36.0	32.9	0.191	64	75.7	58.6	32.5
4	29.667	29.964	29.424	44.8	54.7	* 34.7	27.2	0.148	50	127.8	75.1	* 28.7
5	30.082	30.125	29.968	47.7	55.3	37.0	32.6	0.190	56	118.9	81.0	* 28.7
6	29.971	30.052	29.895	52.9	67.0	37.2	38.9	0.238	62	126.0	89.5	36.0
7	29.985	30.102	29.919	51.1	61.7	45.5	44.9	0.299	81	134.0	88.0	41.3
8	30 076	30.138	30.008	48.4	54.0	43.7	46.6	0.318	94	94.0	76.1	42 2
9	29.820	29.944	29.672	59.1	72.3	46.6	48.7	0.357	70	133.5	87.5	41.6
10	30.050	30.123	29.967	55.2	66.8	43.1	39.9	0.250	57	133.0	92.1	33 3
11	30.090	30.173	29.985	50.3	54.0	44.8	43.6	0.287	78	73.7	71.6	41.0
12	29 622	29 889	29.407	54.1	60.8	48.5	47.1	0.334	80	98.0	68.8	39.3
13	29.872	29.941	29 790	54.2	65.1	44.6	42.3	0.276	66	131.9	90.5	40.5
14	29 840	29.974	29.694	56.2	66.3	43.8	49.3	0.354	80	129.0	87.5	37.8
15	29.593	29.690	29.503	63.1	74.0	52.8	53.4	0.417	72	141.8	99.4	40.8
16	29.854	29 982	29.742	62.1	74.9	47.1	49.6	0.359	66	138 0	98.8	45.0
17	29.846	29.963	29 729	61.1	71.5	46.5	51.1	0.381	70	135.2	92.0	41.5
18	29.800	29.932	29.655	65.5	* 77.0	56.7	55.3	0.438	72	138.8	* 101.2	51.0
19	29.902	29 927	29.869	62.7	70.0	56.0	58.0	0.484	85	135.1	95.2	52.2
20	29.918	29.981	29.815	59.0	62.3	55.0	47.9	0.338	68	92.0	77.0	50.6
21	29.749	29.819	29.678	59.6	68.3	49.6	50.8	0.383	74	134.2	92.9	43.2
22	29.806	29.868	29.710	55.8	64 2	48.5	47.1	0.327	74	121.0	85.5	47.2
23	29.928	30.030	29 836	46.2	50.4	42 6	41.7	0.264	85	90.7	72.8	41.3
24	30.151	30.285	30.024	50.4	60.7	40.0	40.3	0.250	71	134.8	89.0	34.1
25	30.319	* 30.360	30.285	51.9	65 2	39.8	43.2	0.281	74	142.0	92.8	34.5
26	30.282	30.309	30 234	54.7	65.2	46.9	47.9	0.334	79	* 146.9	97.0	43 2
27	30.189	30.257	30.128	57 0	68.3	43.8	49.9	0.363	80	134 3	92.3	38.8
28	30.146	30.192	30.106	60.7	74.0	45.8	54.9	0.435	83	138.0	98.0	42.6
29	30.129	30.157	30 100	63.7	74.2	51.8	56.3	0.457	78	138.3	96.8	44.7
30	29.773	30.087	29.480	63.3	65.8	59.0	60.0	0.519	90	113.0	78.0	53.1
平均 Means.	29.916	...	...	55.0	...	...	46.1	0.326	74	...	...	...
至極 Max. & Min.	...	30.360	29.246	...	77.0	34.7	...	...	...	146.9	101.2	28.7

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = $2'.37$.

觀象臺長	海軍五等技師	中川將行 閲
觀測士		
觀測助手	海軍二等技手	伊藤直温
同	海軍屬	嘉納謙作
同	海軍屬	日比翁助
同	海軍屬	白井正信
同	海軍八等技手	小澤兼藏
同	海軍十等技手	永江董

(Signed) Director.

M. Nakagawa.

Observer......................

Assistant.

N. Itō.

„ K. Kano.

„ O. Hibi.

„ M. Shirai.

„ K. Ozawa.

„ T. Nagaye.

REMARKS.

Day.

1 *f. p.* in a.m.; *f. d.* in p.m.; *f. p.* in night.
2 *f. p.*; E. at 5.33 p.m.
3 *f. p.*; *d.* after 2 p.m.
4 *f. p.* in a.m.; B. C. in p.m.; *f. p.* after 9 p.m.
5 *f. p.*; B. C. after 3 p.m.; *d.* in night.

6 *d.*; B. after 6 p.m.
7 C.; H. at 9 a.m.
8 *d.*; R. after 10.10 p.m.
9 R.; S. at 1.30 p.m.; C. after 8 p.m.; N. E. or N. W. w_3 after 10 a.m.; Barometer fallen exceedingly.
10 *d.*; cleared after 10 a.m.; E. at 1.33 p.m.

11 B.; F. in night.
12 *d.*; *l. h.* at 3 a.m.; R. after 7 p.m; S. or S. W. w_3 in p.m.; Barometer fallen decidedly.
13 *d.*; *f. p.* after 8 a.m.; N. W. w_2 in day.
14 *f. p.*; *d.* at times.
15 *f. p.* in a.m.; B. in p.m.; *d.* in night; S. W. w_3 in p.m.

16 *f. p.*
17 C.; R. at times after 1 p.m.
18 R., *d.* after 8.30 a.m.; B. in p.m.; S. or S. W. w_2 after 7 a.m.; Barometer fallen exceedingly.
19 *f. p.*
20 *d.* in day; *f. p.* in night.

21 *f. p.*, E. at 8.27 a.m.
22 B. C. in a.m.; *d.* in p.m.; R. after 3 p.m.; T. at times after 4 p.m.; C. after 8 p.m.
23 C., with S. at times in a.m.
24 C.; B. C. in p.m.; C. in night; D. at 1 a.m. and 10 p.m.
25 *f. p.*; C. until day-break.

26 *f. p.*
27 *f. p.*; B. C. 2—6 p.m.; S. W. w_2 in p.m.
28 *f. p.*; N. w_2 in p.m.
29 *f. p.*; N. w_2 in day.
30 *f. p.*
31 *f. p.*; B. C. 5—8 p.m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黑 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險惡ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1 = slight, w_5 = strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日 午前快晴午後薄晴夜來後快晴

二日 晝夜快晴午後五時三十三分頃地震ス

三日 快晴午後二時過ヨリ薄陰

四日 午前快晴午後半晴同九時頃ヨリ再ヒ快晴

五日 快晴午後三時過半晴夜來薄陰

六日 薄陰午後六時後漸々晴

七日 陰午前九時過暫時ノ間霰降ル

八日 薄陰午後十時十分頃ヨリ降雨

九日 降雨午後一時三十分頃ヨリ暫時ノ間降雪同八時過雨歇ミ後陰午前十時後北東或北西强風風雨鹹殊ニ降下セリ

十日 薄陰午前十時時過ヨリ漸々快晴午後一時三十三分頃地震ス

十一日 晴夜來靄アリ

十二日 薄陰午前三時頃月暈アリ午後七時過ヨリ降雨ス午後南或南西强風風雨鹹大ニ降下ス

十三日 薄陰午前八時頃ヨリ快晴晝間北西風稍强

十四日 快晴時々薄陰

十五日 午前快晴午後晴夜來薄陰午後南西强風

十六日 晝夜快晴

十七日 陰午後一時過ヨリ時々降雨

十八日 午前八時三十分頃マテ降雨後薄陰午後漸々晴午前七時後南或南西風稍强風雨鹹殊ニ降下セリ

十九日 快晴

二十日 晝間薄陰夜間快晴

廿一日 續テ快晴午前八時二十七分頃地震ス

廿二日 午前半晴午後薄陰同三時過ヨリ降雨同四時頃ヨリ時々雷鳴シ同八時頃雨歇ミ後陰

廿三日 陰午前屢々降雪

廿四日 午前陰午後半晴夜來復陰午前一時過及午後十時過ニ於テ暫時微雨降ル

廿五日 拂曉マテ陰爾後快晴

廿六日 晝夜快晴

廿七日 快晴午後二時頃ヨリ同六時頃マテ半晴午後南西風稍强

廿八日 晝夜快晴午後北風稍强

廿九日 續テ快晴晝間北風稍强

三十日 快晴

卅一日 快晴午後五時頃ヨリ同八時マテ半晴

地平磁氣力
HORIZONTAL INTENSITY.

8th Beginning time 3ʰ 15ᵐ P. M. / Ending 4 20 — 八日午後三時十五分ヨリ同四時二十分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	61 37 0	36 30	36 45				
	W.					2	55 1 0	0 20	0 40
	E.	3	61 37 20	36 40	37 0				
	W.					4	55 1 20	0 40	1 0
	E.	5	61 37 20	36 40	37 0				
均平 Means		61° 36′ 55″.0				.... 55° 0′ 50″.0			
西 West.	W.					6	54 58 0	57 20	57 40
	E.	7	61 31 40	31 0	31 20				
	W.					8	54 57 50	57 20	57 35
	E.	9	61 32 0	31 20	31 40				
	W.					10	54 58 0	57 20	57 40
均平 Means.		61° 31′ 30″.0				.... 54° 57′ 38″.3			

度温均平 Mean Temperature t = 51°.5 fah.
角針偏 Angle of Deflection u = 3° 17′ 29″.2

搖振時 Oscillations.

數振 No. of Osc.	時測 Time. h m s	度温 Temp. °	尺度兩端之視閲數 Extreme. Scale-readings.		百振之時 Time of 100 Oscillations. m s
0	4 5 50.5	51.8	3.2	56.0	
10	4 9 34.8				
20	4 7 20.0				
31	4 8 9.0				
41	4 8 53.8				
51	4 9 38.0				
100	4 13 17.0				7 26.5
110	4 14 1.3				26.5
120	4 14 6.0				26.0
131	4 15 34.8				25.8
141	4 16 20.0				26.2
151	4 17 4.5	51.4	44.0	15.2	26.5
均平 Means.		51.6	....		7 26.25

差振捩 Mean effect of 90° of Torsion v = 2.08
差日儀時 Daily rate s = 2ˢ.12 losing.

果成 Resulting absolute value X = 6.3261

25th Beginning time 2ʰ 40ᵐ P. M. / Ending 3 30 — 廿五日午後二時四十分ヨリ同三時三十分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	298 10 20	9 40	10 0				
	W.					2	291 34 20	33 40	34 0
	E.	3	298 10 40	9 50	10 15				
	W.					4	291 34 40	34 0	34 20
	E.	5	298 11 0	10 20	10 40				
均平 Means.		298° 10′ 18″.3				.... 291° 34′ 10″.0			
西 West.	W.					6	291 31 20	30 40	31 0
	E.	7	298 5 20	4 40	5 0				
	W.					8	291 32 0	31 20	31 40
	E.	9	298 5 20	4 40	5 0				
	W.					10	291 32 0	31 20	31 40
均平 Means.		298° 5′ 0″.0				.... 291° 31′ 29″.7			

度温均平 Mean Temperature t = 56°.9 fah.
角針偏 Angle of Deflection u = 3° 17′ 25″.4

搖振時 Oscillations.

數振 No. of Osc.	時測 Time. h m s	度温 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m s
0	3 15 6.3	57.8	4.1	56.2	
10	3 15 51.0				
20	3 16 35.2				
31	3 17 24.5				
41	3 18 9.0				
51	3 18 54.0				
100	3 22 32.9				7 25.6
110	3 23 17.0				26.0
120	3 24 1.3				26.1
131	3 24 50.2				25.7
141	3 25 35.0				26.0
151	3 26 19.8	57.8	15.2	45.0	25.8
均平 Means.		57.8	....		7 25.87

差振捩 Mean effect of 90° of Torsion v = 2.45
差日儀時 Daily rate s = 1ˢ.39 losing.

果成 Resulting absolute value X = 6.3319

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 9.2	5	4 8.4	9	4 10.4	13	4 8.6	17	4 7.8	21	4 9.7	25	4 7.6		
2	4 11.2	6	4 9.9	10	4 8.2	14	4 9.4	18	4 8.3	22	4 8.3	26	4 7.0	29	4 6.7
3	4 10.0	7	4 12.2	11	4 8.3	15	4 8.0	19	4 7.9	23	4 10.1	27	4 7.1	30	4 6.7
4	4 9.8	8	4 11.1	12	4 8.7	16	4 8.8	20	4 9.1	24	4 8.1	28	4 7.1	31	4 6.9

平均 Mean = 4° 8′.73

磁氣傾差
Magnetic Inclination.

8th. Beginning / Ending time $5^h\ 0^m$ / 5 30 P. M. 八日午後五時零分ヨリ同時三十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 41	49 39	49 52	49 49	49 39	49 37	49 40	49 35	49 50	49 52	49 21	49 20	49 59	50 0	49 36	49 38
49 41	49 39	49 47	49 44	49 39	49 38	49 40	49 36	49 56	49 59	49 19	49 18	50 3	50 3	49 39	49 41
49 41.0	49 39.0	49 49.5	49 46.5	49 39.0	49 37.5	49 40.0	49 35.5	49 53.0	49 55.5	49 20.0	49 19.0	50 1.0	50 1.5	49 37.5	49 39.5
49 40.0		49 48.0		49 38.3		49 37.7		49 54.3		49 19.5		50 1.3		49 38.5	
49 44.0				49 38.0				49 36.9				49 49.9			
49 41.0								49 43.4							

成果 Resulting Dip = 49° 42′.2

25th. Beginning / Ending time $4^h\ 15^m$ / 4 45 P. M. 二十五日午後四時十五分ヨリ同四十五分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 44	49 42	49 57	49 55	49 40	49 38	49 42	49 38	49 45	49 46	49 17	49 19	49 50	49 52	49 37	49 38
49 45	49 43	50 0	49 57	49 36	49 32	49 45	49 41	49 47	49 48	49 14	49 18	49 53	49 54	49 33	49 36
49 44.5	49 42.5	49 58.5	49 56.0	49 38.0	49 35.0	49 43.5	49 39.5	49 46.0	49 47.0	49 15.5	49 18.5	49 51.5	49 53.0	49 35.0	49 37.0
49 43.5		49 57.3		49 36.5		49 41.5		49 46.5		49 17.0		49 52.3		49 36.0	
49 50.4				49 39.0				49 31.8				49 44.2			
49 44.7								49 38.0							

成果 Resulting Dip = 49° 41′.4

天候 WEATHER.

日次 Date	雲之種類 Kind of Cloud: 卷雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	...	4	...	3	...	...	...	...	1	4.8	...
2	...	...	1	...	...	1	...	...	...	...	6	0.3	...
3	...	2	1	...	...	4	...	...	...	...	1	4.8	...
4	...	3	...	2	...	1	...	...	...	...	2	3.1	...
5	...	1	1	4	...	1	...	...	...	...	1	3 4	...
6	1	...	...	1	3	1	1	...	...	...	1	6.5	...
7	...	...	...	2	1	4	1	...	...	...	...	8.4	...
8	1	...	...	2	4	...	...	1	...	...	...	9.4	...
9	1	...	...	...	1	...	...	6	...	...	...	10.0	1.60
10	1	...	...	3	1	...	...	...	...	...	3	4.3	1.09
11	...	1	...	1	5	...	...	...	...	...	1	4.1	...
12	...	1	1	1	2	1	...	2	...	...	...	7.9	...
13	...	1	...	3	...	1	...	...	...	...	3	3.1	0.07
14	...	1	1	4	...	...	1	...	...	...	1	4 5	...
15	1	...	...	2	1	1	...	...	...	...	3	3 8	...
16	...	...	2	...	...	...	...	...	...	...	6	0.3	...
17	...	...	1	2	...	2	2	1	...	...	...	9.4	...
18	...	...	...	...	2	2	...	2	...	...	2	5.6	3.05
19	...	...	...	...	...	...	...	...	...	...	8	0.0	...
20	...	...	...	2	5	...	...	...	...	...	1	4.9	...
21	2	...	...	3	3	...	...	...	...	...	...	1.6	...
22	...	1	...	2	...	4	...	1	...	...	...	8.3	...
23	...	2	2	...	...	...	...	2	2	...	...	9.9	0.56
24	...	1	...	...	2	6	...	...	...	...	...	8.4	0.02
25	...	2	...	2	...	...	...	...	...	...	4	1.9	...
26	...	...	...	...	2	...	...	...	...	...	6	0.3	...
27	...	...	...	2	2	...	...	...	...	...	4	1.5	...
28	...	2	...	1	...	2	...	...	...	...	3	0.8	...
29	...	2	...	2	...	1	...	...	...		3	1.8	...
30	...	...	1	1	...	1	...	...	...		5	0.4	...
31	2	...	...	2	1	...	...	...	...		3	1.8	...
合計 Sums.	9	20	11	48	34	36	5	15	2	...	68	...	6.39
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	4.4	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	合計 Total. 時數 Number of Hours.	合計 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	19	261.3	...	...	...	...	...	...	...	...	...	...	...	...	5	39.5	24	300.8	N.	19.7
2	...	10	135.5	...	...	...	...	...	...	...	...	...	...	...	...	14	180.4	24	315.9	N.W.	23.4
3	...	19	203.7	...	...	...	...	...	...	...	...	...	...	...	...	5	29.5	24	233.2	N.	21.4
4	...	16	109.1	3	27.6	...	...	...	...	...	...	...	...	...	...	5	52.8	24	189.5	N.	13.8
5	...	15	112.7	1	2.4	...	...	...	...	...	...	...	...	...	...	8	68.2	24	183.3	N.	17.8
6	4	10	58.1	2	11.0	3	5.5	...	...	5	16.1	...	...	...	...	...	...	24	90.7	N.	8.3
7	...	12	101.9	5	32.7	5	16.7	2	17.4	...	...	...	...	...	...	...	...	24	168.7	N.	10.9
8	...	9	26.9	5	30.9	3	18.9	7	34.9	...	...	...	...	...	...	...	...	24	111.6	S. E.	8.7
9	...	5	50.2	6	117.9	1	12.8	...	...	...	...	...	...	...	...	12	278.3	24	459.2	N.W.	33.9
10	...	8	64.6	...	...	...	...	...	...	...	...	...	...	...	...	16	279 3	24	343.9	N.W.	24.2
11	4	11	32.5	6	15.1	1	3.5	...	...	2	6.3	...	...	...	...	...	...	24	57.4	N.	9.5
12	2	8	10.1	...	...	1	1.6	...	...	10	345.1	3	88.0	...	...	...	...	24	444.8	S.	* 50 7
13	...	11	175.7	...	...	...	...	...	...	...	...	...	...	...	...	13	271.1	24	446.8	N.W.	25.5
14	1	5	62.2	1	7.1	...	...	11	36.5	...	...	...	...	...	...	6	60.8	24	166.6	N.	14.7
15	3	12	148.5	...	...	...	...	2	6.2	3	67.9	3	104.0	...	...	1	19.4	24	346.0	S. W.	35.6
16	...	16	169.9	...	...	...	...	...	...	...	...	...	...	...	...	8	122.5	24	292.4	N.	22.2
17	1	13	41.9	...	...	1	4.0	9	18.8	...	...	...	...	...	...	...	...	24	64.7	N.	8.3
18	...	...	...	...	...	3	19.6	2	11.7	7	139.5	9	170.2	3	24.3	...	...	24	365 3	S. W.	30.8
19	...	4	44.2	...	...	...	...	...	...	...	...	6	15.3	1	6.4	13	95.4	24	161.3	N.W.	13.9
20	3	8	10.7	...	...	...	...	3	7.6	7	41.1	2	21.3	...	...	1	0.6	24	81.3	S. W.	10.8
21	...	4	16.5	...	...	4	5.3	1	2.4	7	27 2	5	12.1	...	...	3	16.7	24	80.2	S.	8.5
22	...	9	61.2	5	44.9	...	...	3	10.8	1	3.8	...	...	...	...	6	20.2	24	140.9	N.	12.2
23	...	3	12.0	19	126.6	2	12.6	...	...	...	...	...	...	...	...	...	...	24	151.2	N. E.	10.6
24	...	8	51.1	2	4.9	14	87.9	...	...	...	...	...	...	...	...	...	...	24	143.9	E.	10.0
25	1	8	19.4	1	1.2	...	...	6	38.1	5	21.7	3	6.1	...	...	...	...	24	86.5	S. E.	7.6
26	4	1	1.8	...	...	...	...	6	15.0	5	22.8	1	0.4	3	2.5	4	10.6	24	53.1	S.	9.9
27	1	5	20 2	...	...	...	...	...	...	4	27.0	11	180.0	2	3.1	1	0.2	24	230.5	S. W.	24.7
28	...	17	292.4	...	...	...	...	...	...	...	...	6	90.8	...	...	1	8.8	24	392.0	N.	21.2
29	...	23	378.2	...	...	...	...	...	...	...	...	...	...	...	...	1	18.6	24	396.8	N.	22.9
30	...	9	96 7	...	...	...	...	...	...	...	...	...	...	...	...	15	234.6	24	331.3	N.W.	19.8
31	...	6	16.9	...	...	...	...	4	15.8	9	102.8	...	...	2	5.7	3	25.6	24	166 8	S.	20.8
合計 Sums.	24	304	2786.1	56	422.3	38	188.4	56	215.2	65	821.3	49	688.2	11	42.0	141	1833.1	744	6996.6	...	...
極强 Max.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	S.	50.7

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	59	70	52	42	38	43	51	57
2	57	60	46	40	39	47	55	57
3	56	62	46	40	41	45	57	57
4	70	61	54	47	39	46	52	57
5	58	67	42	37	40	46	50	55
6	58	60	53	51	51	60	65	71
7	68	69	61	51	51	66	67	58
8	65	60	54	45	47	64	64	90
9	96	98	95	86	96	90	64	63
10	61	76	54	48	48	54	58	58
11	64	70	59	55	57	77	89	88
12	91	86	69	52	58	67	76	86
13	81	49	44	40	40	51	50	49
14	53	52	49	48	48	60	65	83
15	87	90	59	41	39	35	50	52
16	55	58	36	42	41	50	57	65
17	92	65	63	53	51	78	82	93
18	99	100	89	65	45	55	47	60
19	80	63	50	49	41	51	55	61
20	84	65	52	39	50	69	79	76
21	93	91	69	51	50	60	85	94
22	95	88	64	49	58	92	92	92
23	89	79	88	87	74	82	90	86
24	90	91	65	62	63	75	75	90
25	89	97	71	63	60	58	71	72
26	93	94	70	53	55	67	92	85
27	84	79	65	44	40	48	59	58
28	54	61	47	38	38	43	48	56
29	57	59	44	38	39	44	51	54
30	48	48	43	36	38	41	51	53
31	57	66	49	46	57	65	80	92
平均 Means.	74	72	58	50	49	59	63	70

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.143	0.139	0.156	0.166	0.151	0.125	0.127	0.122
2	0.107	0.104	0.118	0.131	0.143	0.131	0.127	0.116
3	0.112	0.104	0.135	0.148	0.149	0.146	0.140	0.131
4	0.131	0.107	0.143	0.159	0.152	0.141	0.130	0.126
5	0.118	0.106	0.112	0.138	0.148	0.140	0.124	0.125
6	0.124	0.122	0.137	0.166	0.166	0.172	0.146	0.160
7	0.120	0.140	0.153	0.172	0.196	0.206	0.191	0.143
8	0.142	0.113	0.143	0.167	0.181	0.209	0.191	0.239
9	0.245	0.253	0.276	0.309	0.219	0.226	0.187	0.186
10	0.168	0.179	0.171	0.173	0.166	0.147	0.130	0.127
11	0.122	0.119	0.158	0.180	0.256	0.262	0.234	0.211
12	0.186	0.164	0.187	0.305	0.325	0.322	0.376	0.430
13	0.274	0.156	0.147	0.152	0.149	0.151	0.124	0.118
14	0.116	0.118	0.142	0.170	0.186	0.203	0.206	0.221
15	0.186	0.158	0.204	0.213	0.212	0.111	0.139	0.130
16	0.122	0.112	0.106	0.151	0.164	0.161	0.140	0.131
17	0.179	0.124	0.149	0.214	0.233	0.261	0.307	0.352
18	0.388	0.374	0.537	0.373	0.235	0.233	0.168	0.179
19	0.182	0.157	0.179	0.224	0.209	0.202	0.169	0.153
20	0.166	0.136	0.174	0.214	0.268	0.275	0.309	0.278
21	0.309	0.265	0.287	0.293	0.276	0.280	0.331	0.311
22	0.302	0.271	0.246	0.267	0.284	0.298	0.246	0.209
23	0.199	0.182	0.182	0.195	0.207	0.203	0.209	0.200
24	0.206	0.200	0.173	0.220	0.225	0.222	0.215	0.231
25	0.202	0.199	0.215	0.264	0.275	0.240	0.248	0.204
26	0.214	0.196	0.252	0.266	0.309	0.302	0.307	0.260
27	0.222	0.196	0.268	0.232	0.244	0.246	0.240	0.227
28	0.231	0.249	0.227	0.214	0.186	0.152	0.142	0.140
29	0.131	0.130	0.128	0.141	0.147	0.129	0.123	0.114
30	0.109	0.103	0.133	0.154	0.166	0.139	0.133	0.133
31	0.127	0.120	0.149	0.171	0.263	0.265	0.289	0.243
平均 Means.	0.180	0.165	0.187	0.205	0.209	0.203	0.198	0.192

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	26.4	25.7	28.4	29.8	27.6	23.3	23.7	22.9
2	19.8	19.3	22.0	24.3	26.3	24.3	23.6	21.7
3	20.8	19.3	25.0	27.2	27.3	26.8	25.8	24.3
4	24.3	19.9	26.4	28.9	27.8	26.0	24.2	23.5
5	22.0	19.7	20.8	25.5	27.2	25.8	23.2	23.3
6	23.2	22.9	25.4	29.9	29.8	30.8	26.9	29.0
7	22.4	25.9	28.0	30.8	34.0	35.3	33.4	26.3
8	26.1	21.1	26.4	30.0	32.0	35.7	33.4	39.2
9	38.9	40.6	42.9	45.9	36.9	37.7	32.9	32.7
10	30.1	31.7	30.6	30.9	29.9	27.0	24.2	23.7
11	22.9	22.3	28.7	31.9	40.9	41.5	38.6	35.9
12	32.7	29.6	32.9	45.5	47.2	46.9	51.4	54.8
13	42.7	28.4	27.0	27.8	27.3	27.6	23.1	22.0
14	21.6	22.0	26.1	30.5	32.8	34.9	35.3	37.1
15	32.7	28.8	35.1	36.1	36.0	20.7	25.7	24.1
16	22.8	20.8	19.6	27.6	29.6	29.2	25.8	24.3
17	31.7	23.2	27.4	36.2	38.5	41.4	45.7	49 3
18	52.0	51.0	61.0	50.9	38.7	38.5	30.1	31.8
19	32.2	28.6	31.8	37.4	35.7	34.8	30.3	23.0
20	29.8	25.2	31.1	36.3	42.1	42.8	45.7	43.1
21	45.9	41.8	43.9	44.4	42.9	43.3	47.7	46.0
22	45.2	42.4	39.9	42.0	43.6	44.9	39.9	35.7
23	34.4	32.1	32.2	33.9	35.4	34.9	35.7	34.6
24	35.3	34.6	30.9	37.0	37 6	37.2	36.4	38.2
25	34.8	34.5	36.4	41.7	42.8	39.3	40.1	35.1
26	36.3	34.1	40.5	41.9	45.9	45.2	45.7	41.3
27	37.2	34.0	42.1	38.4	39.7	39.9	39.3	37.8
28	38.3	40.2	37.8	36 2	32.7	27.8	26.1	25.8
29	24.3	24.1	23.9	26.0	27.0	24.0	23.0	21.3
30	20.3	20.3	24.6	28.1	29.9	25.6	24.7	24.6
31	23.6	22.4	27.4	30.6	41.6	41.8	44.1	29.6
平均 Means.	30.7	28.6	31.5	34.3	35.1	31.0	33.1	32.2

寒暑鍼 THERMOMETER.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	39.5	34.2	45.0	52.0	52.7	44 0	40.2	36.6
2	33.0	30.9	41.0	47.0	50.0	43.0	38.2	35.3
3	34.5	30.2	44.5	50.2	50.0	47.0	40.0	38.0
4	33.0	31.0	42.0	48.7	52.0	45.8	40.0	37.2
5	35.0	29.0	42.0	50.2	51.0	45.6	40.1	37.8
6	36.5	35.3	41.5	48.3	46.8	43.2	37.6	37.4
7	31.5	35.0	40.3	48.0	51.8	46.0	42.8	40.0
8	37.0	32.8	42.0	51.0	51.7	47.1	45.1	41.8
9	39.8	41.0	44.2	49.9	37.8	40.0	44.6	44.2
10	42.6	38.9	46.3	50.5	49.0	42.5	37.5	37.0
11	33.5	30.5	42.1	47.3	55.9	48.5	41.5	39.4
12	35.0	33.2	42.2	63.5	62.1	57.7	59.0	59.0
13	48.2	46.8	47.9	51.5	50.9	44 7	39.8	39.5
14	36.5	37.4	43.6	49.5	52.0	48.3	46.4	42.0
15	36.2	31.0	45.8	60.0	61.7	46.8	42.9	39.9
16	37.2	33.9	44.4	49.7	52.3	46.6	40.0	35.0
17	33.7	33.5	39.0	53.0	56.8	51.0	51.0	51.3
18	52.1	51.0	64.3	62.7	61.8	54.2	49.7	45.0
19	37.8	40.0	49.7	56.4	59.8	52.7	45.5	40.5
20	34.0	35.4	48.1	61.8	60.6	55.0	52.2	50.3
21	48.0	44.4	53.8	62.7	61.7	57.1	52.3	47.7
22	46.5	45.6	52.0	61.3	58.2	47.2	42.1	37.8
23	37.5	38.2	35.3	37.5	42.9	40.0	38.5	38.5
24	37.9	37.0	41.8	50.0	50.0	45.0	44.0	40.9
25	37.7	35.3	45.0	54.0	56.7	53.8	49.2	43.2
26	38.2	35.6	50.1	58.7	62.1	56.1	48.0	45.6
27	41.7	40.0	53.6	60.7	64.5	59.8	53.3	52.3
28	54.8	53.4	57.8	62.5	58.8	49.5	43.9	40.5
29	38.0	36.9	44.5	50.6	51.0	44.0	39.2	37.0
30	38.0	38.0	46.0	54.2	55.2	48.1	41.2	40.1
31	37.1	32.0	45.8	51.0	57.0	53.2	50.1	41.9
平均 Means.	38.8	37.0	45.9	53.4	54.3	48.5	44.4	41.7

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.800	29.810	29.843	29.831	29.798	29.842	29.890	29.899
2	29.894	29.925	29.914	29.902	29.888	29.907	29.943	29.943
3	29.926	29.915	29.975	29.936	29.891	29.931	29.987	29.988
4	29.970	29.978	30.011	29.986	29.936	29.977	30.025	30.055
5	30.050	30.085	30.121	30.075	30.036	30.079	30.134	30.166
6	30.159	30.198	30.221	30.178	30.112	30.107	30.128	30.116
7	30.078	30.097	30.145	30.094	30 032	30.062	30.112	30.126
8	30.137	30.168	30.226	30.199	30.123	30.131	30.100	30.004
9	29.880	29.703	29.510	29.107	29.091	29.260	29.361	29.473
10	29.588	29.698	29.789	29.836	29.873	29.935	30.020	30 043
11	30.066	30.077	30.113	30.088	30.002	29.990	30 001	29.977
12	29.930	29.903	29.884	29.756	29.659	29.543	29 390	29.263
13	29.315	29.442	29.572	29.687	29.713	29.800	29.880	29 938
14	29.947	30.010	30.060	30 042	30.018	30.014	30.030	30.013
15	29.971	29.970	29.937	29.824	29.728	29.836	29.897	29.961
16	30.003	30.111	30.187	30.207	30.188	30.241	30.276	30.313
17	30.285	30.327	30.333	30.284	30.176	30.094	30.047	29.887
18	29.646	29.358	29.272	29.256	29.225	29.381	29.504	29.598
19	29.687	29.778	29.845	29.889	29.919	29.986	30.032	30.076
20	30.140	30.152	30.193	30.160	30.094	30.089	30.109	30.071
21	30.052	30.039	30.042	29.993	89.936	29 924	29.979	29.947
22	29.949	29.958	29.966	29.950	29.907	29.980	30.054	30.108
23	30.126	30.179	30.221	30.210	30.171	30.185	30.217	30.213
24	30.193	30.208	30.247	30.253	30.188	30.183	30.183	30.179
25	30.123	30.131	30.137	30.089	30.012	29.987	30.005	30.001
26	29.962	29.953	29.883	29.886	29.824	29.799	29.826	29.824
27	29.821	29.814	29.806	29.725	29.633	29.653	29.641	29.599
28	29.537	29.530	29.606	29.602	29.620	29.698	29.780	29.771
29	29.796	29.842	29.857	29 845	29.809	29.834	29.876	29.865
30	29.847	29.873	29.899	29.882	29.868	29.909	29 972	29.997
31	30.007	30.070	30.083	30.057	29.971	29.940	29.909	29.907
平均 Means.	29.932	29.946	29.965	29.930	29.885	29.913	29.945	29.946

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level.			寒暑鍼 Thermometer.			露點温度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	平均 Mean.	高極 Max.	低極 Min.	平均 Mean.	高極 Max.	低極 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	29.839	29.899	29.798	43.0	53.2	33.1	26.0	0.141	52	120 0	75.8	28.8
2	29.918	29.944	29.888	39.8	50.5	29.8	22.7	0.122	50	118.8	70.0	20.2
3	29.947	29.988	29.891	41.8	53.0	29.4	24.6	0.133	51	120.7	74.5	22.0
4	29.992	30 055	29.936	41.2	53.5	29.1	25.1	0.136	53	126.8	80.3	18.5
5	30.093	30.166	30.036	41.3	54.5	* 28.5	23.4	0.126	49	124 2	85.8	* 18.2
6	30.152	30.221	30.107	40.8	48.6	34.2	27.2	0.149	59	121.2	75.3	23.5
7	30.093	30.145	30.032	41.9	55.0	30.5	29.5	0.165	61	123.6	81.0	24.1
8	30 136	30.226	30.004	43.6	53.7	31.4	30.5	0.173	61	119.0	77.2	23.0
9	29.423	29.880	* 29.051	42.7	50.0	36.0	38.6	0.238	86	70.0	49.3	31.8
10	29.848	30.043	29.588	43.0	51.6	35.9	28.5	0.158	57	119.5	69.2	28.9
11	30.039	30.113	29.977	42.3	56.7	30.5	32.8	0.193	70	119.1	81.0	23.8
12	29.666	29.930	29.263	51.5	64.7	33.2	42.6	0.287	73	129.1	85.0	25.7
13	29.668	29.938	29.299	46.2	58.9	38.4	28.2	0.159	51	123.5	70.6	31.0
14	30 017	30.060	29.947	44.5	54.0	36.5	30.0	0.170	57	124.0	79.7	30.0
15	29.891	29.961	29.723	45.5	61.8	31.0	29.9	0.169	57	123.5	78.0	24.0
16	30.191	30.313	30.003	42.4	53.0	32.7	24.8	0.136	51	123.7	76.3	27.0
17	30.179	* 30.333	29.887	46.2	56.8	32.2	36.7	0.227	72	127.7	83.5	27.8
18	29.405	29.857	29.225	55.1	64.5	44.8	44.3	0.311	70	122.8	81.3	35.8
19	29.902	30 076	29 697	47.8	60.2	35.5	32.4	0.184	56	128.0	82.7	27.0
20	30.126	30.193	30.071	49.7	62.9	30.7	37.0	0.228	64	132.0	90.0	23.2
21	29.939	30.052	29.923	53.5	64.2	43.8	44.5	0.294	74	* 138.9	* 102.2	38.0
22	29.984	30.108	29.907	48.8	62.0	37.0	41.7	0.265	79	129.3	84.8	32.1
23	30.190	30.220	30.126	38.6	43.2	34 5	34.2	0.197	84	88.0	66.7	32.5
24	30.204	30.252	30.179	43 3	51 0	36.0	35.9	0.212	76	131.9	80.3	31.2
25	30.053	30.137	29.987	46.9	57.0	35.0	38.1	0.231	73	127.5	80.9	32.6
26	29.870	29.962	29.799	49.3	62.7	34.6	41.4	0.263	76	128.6	87.2	28.8
27	29.712	29.821	29.599	53.2	* 67.2	37.8	38.6	0.234	60	116.4	87.3	33.9
28	29.643	29.780	29.530	52.7	63.7	40.2	33.1	0.193	48	126.4	82.8	35.2
29	29.841	29.876	29 796	42.7	52.9	35.0	24.2	0.130	48	126.2	82.7	31.9
30	29.906	29.997	29.847	45.1	57.2	35.8	24.8	0.135	45	125 8	79.2	30.5
31	29.993	30.083	29 907	46.0	57.3	31.7	33.9	0.203	64	125.0	80.8	23.0
平均 Means.	29.933	...	...	45.5	...	...	32.4	0.192	62	...	...	...
至極 Max. & Min.	...	30.333	29.051	...	67.2	28.5	...	...	...	138.9	102.2	18.2

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニフアイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

觀象臺長 海軍五等技師 中川將行 閲
觀測上
觀測助手 海軍二等技手 伊藤直温
同 海軍屬 嘉納謙作
同 海軍屬 日比翁助
同 海軍屬 白井正信
同 海軍八等技手 小澤兼藏
同 海軍十等技手 永江董

(Signed) Director.
M. Nakagawa.

Observer.........................

Assistant.
N. Itō.
„ K. Kano.
„ O. Hibi.
„ M. Shirai.
„ K. Ozawa.
„ T. Nagaye.

REMARKS.

Day.	
1	*f. p.*; L. in the East, at 2 a. m.; C. 6 a. m.—10 a. m.; S. at 8.40 a. m.
2	*f. d.*; H. at 8.25 a. m.; B. after 8 p. m.; E. at 2.09 p. m.
3	*d.*; with B. at intervals; *l. h.* at 7 p. m.
4	*f. d.*; L. in the S. E., at 8 p. m.; N. w_2 in p. m.
5	*f. p.*; *d.* after 9 p. m.; N. or N. W. w_2 in all day.
6	*f. p.*; N. w_2 until 5 p. m.
7	C.
8	*f. d.*; C. after 6 p. m.
9	C., with S. at intervals after 9 p. m.
10	*f. p.*; S. until 4 a. m.
11	*f. p.*
12	*f. p.* in a. m.; B. in p. m., with C. at intervals in night.
13	C.; *f. p.* 4 a. m.—10 p. m.
14	*d.*; *f. p.* after 10 p. m.
15	*f. p.*; N. w_2 in p. m.
16	*f. p.*; *d.* after 6 p. m.
17	B. in a. m.; L. in the East, at 2 a. m.; *d.* in p. m.; *f. p* in night.
18	*f. p.*
19	*f. p.* H. F. in morning.
20	*f. d.*; C. after 6. p. m.
21	B.; C., with R. or S. at intervals until 8 a. m.
22	*f. p.*; *d.* frequently after 9 p. m.; E. at 1.34 a. m. & 7.20 a. m.
23	*f. p.* in day; *d.* in night; E. at 2.43 a. m. & 9.15 p. m.
24	*f. p.*
25	*f. p.*
26	*f. p.*; B. C. after 8 a. m.; C. in night; R. at 10.25 p. m.
27	C., with R. at intervals; E. at 8.10 a. m.
28	*d.* in day; B. C. in night.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模様 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew)
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1 = slight, w_5 = strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

一日　快晴午前二時頃東方ニ電光シ同六時頃ヨリ陰同八時四十分頃暫時微雪シ同十時頃ヨリ再ヒ快晴
二日　薄晴午前八時二十五分頃暫時霰降リ午後八時過晴　午後二時九分頃地震ス
三日　薄陰時々晴午後七時頃月暈ヲ帯フ
四日　薄晴午後八時過南東ニ電光アリ午後北風稍强
五日　快晴午後九時過薄陰晝夜北或北西風稍强
六日　快晴午後五時マテ北風稍强
七日　晝夜陰天
八日　薄晴午後六時後陰
九日　陰午後九時頃ヨリ時々降雪
十日　午前四時頃マテ微雪後快晴
十一日　晝夜快晴
十二日　午前快晴午後晴夜來時々陰
十三日　陰午前四時頃ヨリ午後十時頃マテ快晴後復陰
十四日　薄陰午後十時過ヨリ快晴
十五日　晝夜快晴午後北風稍强
十六日　快晴午後六時頃ヨリ薄陰
十七日　午前晴同二時過東方ニ電光アリ午後薄陰夜來快晴
十八日　續テ快晴
十九日　快晴今朝結霜ス
二十日　薄晴午後六時頃ヨリ陰
廿一日　陰午前八時頃マテ時々雨雪降リ爾後漸々晴
廿二日　快晴午後九時頃ヨリ時々薄陰　午前一時三十四分及同七時二十分頃地震ス
廿三日　晝間快晴夜間薄陰　午前二時四十三分及午後九時十五分頃地震ス
廿四日　晝夜快晴
廿五日　續テ快晴
廿六日　午前八時頃マテ快晴後半晴夜來陰同十時二十五分頃暫時微雨ス
廿七日　陰天時々降雨　午前八時十分頃地震ス
廿八日　晝間薄陰夜間半晴

地平磁氣力
HORIZONTAL INTENSITY.

2nd Beginning / Ending time $3^h\ 40^m$ / 4 45 P. M. 二日午後三時四十分ヨリ同四時四十五分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A (° ′ ″)	B (′ ″)	Mean. (′ ″)	No.	A (° ′ ″)	B (′ ″)	Mean (′ ″)
東 East.	E.	1	298 25 40	25 10	25 25				
	W.					2	291 49 0	48 20	48 40
	E.	3	298 26 20	25 40	26 0				
	W.					4	291 49 10	48 40	48 55
	E.	5	298 26 40	26 0	26 20				
平均 Means			298° 25′ 55″.0				291° 48′ 47″.5		
西 West.	W.					6	291 47 0	46 20	46 40
	E.	7	298 20 50	20 10	20 30				
	W.					8	291 46 50	46 10	46 30
	E.	9	298 21 10	20 20	21 45				
	W.					10	291 47 0	46 20	46 40
平均 Means.			298° 21′ 7″.5				291° 46′ 36″.7		

平均溫度 Mean Temperature t = 45°.9 fah.
偏針角 Angle of Deflection u = 3° 17′ 54″.6

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	溫度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	10	25.0	45.0	0.3	59.0		
10	4	11	10.0					
20	4	11	54.7					
31	4	12	43.3					
41	4	13	27.9					
51	4	14	12.7					
100	4	17	50.8				7	25.8
110	4	18	35.8					25.8
120	4	19	20.1					25.4
131	4	20	9.2					25.9
141	4	20	53.9					26.0
151	4	21	38.6	44.8	16.7	43.5		25.9
平均 Means.				44.9			7	25.80

拗捩差 Mean effect of 90° of Torsion v = 2.35
時儀日差 Daily rate s = $1^s.81$ losing.

成果 Resulting absolute value X = 6.3249

17th Beginning / Ending time $4^h\ 10^m$ / 5 15 P. M. 十七日午後四時十分ヨリ同五時十五分ニ至ル

偏針角 Deflections.

磁竿 Mag.	北端 North end.	No.	A (° ′ ″)	B (′ ″)	Mean. (′ ″)	No.	A (° ′ ″)	B (′ ″)	Mean (′ ″)
東 East.	E.	1	183 27 0	26 20	26 40				
	W.					2	176 50 40	50 0	50 20
	E.	3	183 27 20	26 40	27 0				
	W.					4	176 50 50	50 0	50 25
	E.	5	183 27 40	27 0	27 20				
平均 Means.			183° 27′ 0″.				176° 50′ 22″.5		
西 West.	W.					6	176 46 40	45 50	46 15
	E.	7	183 20 20	19 40	20 0				
	W.					8	176 46 40	45 50	46 10
	E.	9	183 20 40	19 40	20 10				
	W.					10	176 46 40	46 0	46 20
平均 Means.			183° 20′ 5″.0				176 46′ 15″.0		

平均溫度 Mean Temperature t = 58°.3 fah.
偏針角 Angle of Deflection u = 3° 17′ 36″.9

搖振時 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	溫度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	46	4.0	56.0	0.2	59.5		
10	4	46	48.8					
20	4	47	33.0					
31	4	48	22.8					
41	4	49	7.0					
51	4	49	51.7					
100	4	53	30.4				7	26.4
110	4	54	15.0					26.2
120	4	54	59.4					26.4
131	4	55	49.0					26.2
141	4	56	33.4					26.4
151	4	57	18.0	55.6	13.1	46.8		26.3
平均 Means.				55.8			7	26.32

拗捩差 Mean effect of 90° of Torsion v = 2.23
時儀日差 Daily rate s = $0^s.12$ losing.

成果 Resulting absolute value X = 6.3212

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	3 59.2	5	3 59.3	9	3 58.5	13	3 59.7	17	4 1.1	21	4 1.3	25	4 0.6		
2	3 58.4	6	3 58.4	10	4 0.1	14	4 2.4	18	4 1.5	22	4 2.8	26	4 0.1		
3	3 57.2	7	4 0.2	11	4 0.3	15	4 1.0	19	4 0.7	23	4 0.3	27	4 0.3		
4	4 0.8	8	3 59.0	12	4 0.5	16	4 1.8	20	4 1.1	24	4 1.7	28	3 59.4		

平均 Mean = 4° 0′ 28

磁氣傾差
Magnetic Inclination.

2nd Beginning / Ending time 5^h 5^m / 5 30 P. M. 二日午後五時五分ヨリ同時三十分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 42	49 40	49 49	49 47	49 35	49 32	49 17	49 17	49 55	49 58	49 21	49 23	50 2	50 3	49 36	49 39
49 36	49 35	49 43	49 41	49 36	49 34	49 13	49 12	49 58	49 59	49 23	49 24	50 9	50 11	49 38	49 40
49 39 0	49 37.5	49 46.0	49 44.0	49 35.5	49 33.0	49 15.0	49 14.5	49 56.5	49 58 5	49 22.0	49 23.5	50 5.5	50 7.0	49 37.0	49 39.5
49 38.2		49 45.0		49 34.3		49 14.8		49 57.5		49 22.8		50 6.3		49 38.3	
49 41.6				49 24 6				49 40.7				49 52.3			
49 33.1								49 46.5							

成果 Resulting Dip = 49° 39′.8

17th. Beginning / Ending time 5^h 45^m / 6 18 P. M. 十七日午後五時四十五分ヨリ同六時十八分ニ至ル

極端 A Polarity of Marked end A.								極端 B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 47	49 46	50 4	50 2	49 39	49 38	49 3	49 0	49 47	49 48	49 21	49 26	50 6	50 4	49 30	49 31
49 45	49 43	50 1	50 0	49 34	49 33	49 6	49 0	49 57	49 59	49 17	49 21	50 7	50 7	49 33	49 34
49 46.0	49 44 5	50 2.5	50 1 0	49 36.5	49 35.5	49 4.5	49 0 0	49 52.0	49 55.5	49 19.0	49 23 5	50 6.5	50 5 5	49 31.5	49 32 5
49 45.3		50 1.8		49 36 0		49 2 3		49 52.8		49 21.3		50 6.5		49 32.0	
49 53.6				49 19.2				49 37.1				49 49.3			
49 36.4								49 43.2							

成果 Resulting Dip = 49° 39′.8

天候

WEATHER.

日次 Date.	雲之種類 Kind of Cloud. 巻雲 Cirrus.	積雲 Cumulus	層雲 Stratus.	巻積雲 Cirro-Cumulus.	巻層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	巻積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow.	霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	2	...	4	...	...	...	...	...	...	2	2.8	...
2	...	...	...	4	...	4	...	...	...	...	...	7.9	...
3	...	1	...	5	1	...	1	...	...	...	...	7.8	...
4	...	5	...	2	...	...	1	...	...	...	...	7.1	...
5	...	...	1	...	7	...	...	...	...	...	...	2.8	...
6	...	2	1	2	...	...	...	...	...	...	3	3.1	...
7	...	...	...	2	...	6	...	...	...	...	...	9.6	...
8	...	...	1	3	...	4	...	...	...	...	...	9.3	...
9	...	...	1	...	...	6	...	...	1	...	...	10.0	...
10	2	1	...	2	...	...	...	...	1	...	2	2.3	...
11	1	...	4	...	...	...	...	...	...	...	3	0.8	...
12	...	2	2	1	...	...	...	...	...	...	3	2.0	...
13	1	...	1	1	1	...	...	...	...	...	4	2.5	...
14	1	...	...	4	3	...	...	...	...	...	...	8.4	...
15	...	2	1	...	...	...	...	...	...	...	5	0.4	...
16	...	...	...	1	6	1	...	...	...	...	...	3.5	...
17	1	...	2	2	2	...	...	...	...	...	1	4.6	...
18	...	...	5	...	...	...	...	...	...	...	3	0.8	...
19	3	...	1	1	...	...	...	...	...	...	3	0.8	...
20	...	...	1	4	2	...	1	...	...	...	...	8.1	...
21	...	2	...	3	...	1	1	...	...	...	1	5.9	...
22	...	...	1	...	...	...	...	...	...	...	7	0.1	...
23	...	3	1	2	...	...	1	...	...	...	1	4.9	...
24	...	2	...	...	...	...	...	...	...	...	6	0.3	...
25	...	1	1	1	...	...	...	...	...	...	5	0.6	...
26	1	...	1	3	2	...	...	...	...	...	1	5.8	...
27	...	...	1	1	...	2	1	3	...	...	...	10.0	...
28	...	1	...	3	...	4	...	...	...	...	...	7.0	0.11
合計 Sums.	10	24	26	51	24	28	6	3	2	...	50	...	0.11
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	4.6	...

風 WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	...	20	192.1	...	...	..	...	...	...	...	...	...	...	...	...	4	59.5	24	251.6	N.W.	23.0
2	3	14	39.9	5	13.7	2	3.3	...	...	...	...	...	...	...	...	...	...	24	56.9	N.	7.0
3	...	11	75.4	3	6.4	3	8.3	5	15.4	...	...	...	...	...	...	2	7.6	24	113.1	N.	9.6
4	...	23	302.8	...	...	...	...	...	...	...	...	...	...	...	...	1	19.6	24	322.4	N.	22.7
5	...	21	343.0	...	...	...	...	...	...	...	...	...	...	...	...	3	50.0	24	393.0	N.	22.2
6	...	21	288.4	...	...	...	...	...	...	...	...	...	...	...	...	3	57.6	24	346.0	N.	21.8
7	...	24	74.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	74.6	N.	8.9
8	...	24	185.2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	185.2	N.	13.9
9	...	14	177.2	10	36.7	...	...	...	...	...	...	...	...	...	...	...	...	24	213.9	N.	19.3
10	2	13	165.8	9	32.4	...	...	...	...	...	...	...	...	...	...	...	...	24	198.2	N.	18.6
11	...	7	80.6	2	13.7	12	40.7	...	...	...	...	...	...	...	...	3	42.9	24	177.9	N.	18.9
12	...	9	67.7	1	4.1	2	4.1	5	23.9	1	1.7	...	...	...	...	6	26.8	24	128.3	N.	9 7
13	...	9	51.2	...	...	1	4.7	...	...	5	43.3	...	...	...	...	9	42.0	24	141.2	S.	12.4
14	1	2	5.9	3	5.1	4	9.4	...	...	1	5.6	1	0.4	4	3.3	8	37.3	24	67.0	N.W.	8 5
15	...	17	310.1	...	...	...	...	...	...	...	...	...	...	...	...	7	58.3	24	368.4	N.	* 27.4
16	...	14	175.9	2	24.1	1	6.7	5	19.0	2	3.3	...	...	...	...	...	...	24	229.0	N.	19.3
17	...	20	84.1	4	15.9	...	...	...	...	...	..	...	...	...	...	...	...	24	100.0	N.	10.4
18	...	4	28.1	7	38.6	1	4.4	6	29.4	6	23.8	...	...	...	...	...	...	24	124.3	N. E.	10.4
19	...	4	30.8	3	16.3	4	13.1	1	1.8	1	1.1	2	14.1	...	...	9	33.0	24	110.2	S. W.	13.9
20	...	11	50.4	...	...	3	10.8	2	9.2	1	3.8	...	...	...	...	7	23.9	24	98.1	N.	7.8
21	...	21	215.3	...	...	...	...	...	...	...	...	...	...	...	...	3	48.7	24	264.0	N.W.	17.0
22	...	12	121.9	6	44.5	5	22.2	...	...	1	6.2	...	...	...	...	...	...	24	194.8	N.	13.9
23	1	10	81.9	12	86.3	...	...	...	...	...	...	...	...	...	...	1	6.8	24	175.0	N.	11.7
24	...	22	276.8	...	...	...	...	...	...	...	...	...	...	...	...	2	24.6	24	301.4	N.	19.3
25	...	12	102.7	4	42.6	7	43.9	...	...	...	...	...	...	...	...	1	3.8	24	193.0	N.	13.6
26	2	2	7.5	2	8.1	3	8.8	1	4.5	8	22.6	...	...	...	...	6	26.3	24	77.8	N.W.	5.4
27	...	17	95.7	4	13.0	3	5.3	...	...	...	...	...	...	...	...	...	...	24	114.0	N.	8.3
28	...	14	85.7	2	15.0	...	...	2	4.6	1	2.2	...	...	3	9.1	2	13.5	24	130.1	N. E.	10.7
計合 Sums.	9	392	3716.7	79	416.5	51	185.7	27	107.8	27	113.6	3	14.5	7	12.6	77	582.2	672	5149.4	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	N.	27.4

濕氣百分數

HUMIDITY.

(Saturation = 100)

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	83	88	82	48	46	56	59	62
2	66	64	64	51	51	71	68	71
3	66	65	71	62	64	79	88	83
4	84	82	63	51	47	50	55	58
5	56	58	74	41	42	52	60	67
6	57	56	62	38	39	51	68	59
7	60	59	61	63	52	67	70	87
8	71	77	69	51	50	48	49	54
9	54	50	52	54	61	61	73	80
10	82	89	80	56	43	49	57	57
11	63	51	62	45	49	63	71	74
12	67	66	67	51	60	76	84	73
13	67	68	55	44	55	61	56	62
14	60	72	70	55	62	66	69	66
15	67	73	50	43	45	51	59	62
16	67	84	51	48	44	61	80	71
17	71	68	57	49	42	51	62	71
18	69	76	55	47	47	65	62	87
19	79	80	48	35	44	58	59	63
20	72	70	63	54	59	72	70	70
21	65	67	59	43	40	49	54	59
22	65	62	54	45	42	64	73	69
23	88	68	58	49	47	52	56	67
24	66	65	52	43	40	45	56	60
25	61	63	57	46	45	65	78	83
26	84	87	72	58	52	66	72	78
27	82	82	73	68	72	78	90	92
28	81	85	60	49	49	65	56	69
平均 Means.	70	71	62	50	50	60	66	70

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.182	0.182	0.186	0.173	0.151	0.137	0.127	0.122
2	0.121	0.120	0.127	0.148	0.151	0.176	0.151	0 149
3	0.127	0.118	0.139	0.183	0.207	0.218	0.210	0.182
4	0.177	0.174	0.157	0.153	0.134	0.114	0.107	0.111
5	0.094	0.098	0.151	0.111	0.114	0.112	0.113	0.122
6	0.115	0.106	0.125	0.109	0.111	0.113	0.133	0.102
7	0.100	0.097	0.106	0.136	0.129	0.146	0.149	0.178
8	0.141	0.154	0.149	0.174	0.168	0.140	0.120	0.120
9	0.119	0.103	0.105	0.113	0.134	0.128	0.143	0.154
10	0.146	0.140	0.151	0.148	0.125	0.108	0.110	0.104
11	0.124	0.078	0.128	0.132	0.156	0.167	0.154	0.128
12	0.106	0.097	0.132	0.160	0.214	0.225	0.208	0.160
13	0.135	0.125	0.150	0.177	0.220	0.199	0.159	0.148
14	0.142	0.134	0.172	0.195	0.232	0.231	0.218	0.166
15	0.154	0.141	0.152	0.165	0.153	0.120	0.125	0.122
16	0.131	0.161	0.122	0.141	0.157	0.162	0.205	0.156
17	0.139	0.117	0.140	0.184	0.185	0.195	0.191	0.172
18	0.149	0.137	0.146	0.170	0.196	0.196	0.168	0.175
19	0.143	0.125	0.119	0.181	0.212	0.208	0.171	0.157
20	0.156	0.152	0.171	0.207	0.241	0.261	0.229	0.216
21	0.187	0.186	0.179	0.174	0.173	0.166	0.152	0.146
22	0.142	0.137	0.151	0.151	0.162	0.185	0.181	0.154
23	0.188	0.136	0.149	0.163	0.157	0.166	0.152	0.136
24	0.124	0.122	0.128	0.137	0.137	0.125	0.123	0.120
25	0.116	0.124	0.152	0.168	0.181	0.204	0.201	0.182
26	0.160	0.155	0.187	0.207	0.214	0.212	0.233	0.231
27	0.231	0.214	0.217	0.244	0.261	0.264	0.272	0.245
28	0.212	0.193	0.177	0.177	0.179	0.207	0.154	0.174
平均 Means.	0.145	0.137	0.149	0.164	0.173	0.174	0.166	0.155

明治二十年二月

FEBRUARY. 1887.

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	32.2	32.1	32.8	30.9	27.6	25.4	23.6	22.8
2	22.6	22.5	23.7	27.2	27.6	31.4	27.7	27.3
3	23.6	22.0	25.7	32.3	35.4	36.7	35.8	32.2
4	31.5	31.0	28.6	28.0	24.9	21.3	19.9	20.6
5	17.2	18.0	27.6	20.7	21.3	20.8	21.0	22.8
6	21.5	19.7	23.3	20.3	20.7	21.1	24.6	18.8
7	18.4	17.9	19.6	25.1	24.0	26.8	27.3	31.6
8	26.0	28.1	27.4	31.0	30.1	25.8	22.4	22.5
9	22.2	19.0	19.5	21.1	24.9	23.9	26.3	28.1
10	26.8	25.9	27.6	27.1	23.3	20.1	20.4	19.2
11	23.2	13.2	23.8	24.5	28.4	30.0	28.2	23.9
12	19.7	17.7	24.5	29.1	36.2	36.7	35.6	29.1
13	25.0	23.4	27.5	31.5	37.0	34.5	28.9	27.2
14	26.2	24.9	30.7	33.9	38.4	38.3	36.7	29.9
15	28.1	26.0	27.9	29.7	28.0	22.4	23.3	22.9
16	24.3	29.2	22.8	26.0	28.6	29.4	35.2	28.5
17	25.7	21.9	25.8	32.4	32.6	33.9	32.4	30.8
18	27.4	25.4	26.8	30.5	34.0	34.0	30.1	31.2
19	26.4	23.3	22.3	32.0	36.0	35.6	30.6	28.6
20	28.4	27.9	30.6	35.4	39.4	41.4	38.0	36.5
21	32.9	32.8	31.7	31.0	30.9	29.8	27.8	26.8
22	26.2	25.3	27.6	27.6	29.4	32.6	32.0	28.1
23	33.1	25.1	27.4	29.5	28.6	29.9	27.8	25.1
24	23.1	22.8	23.9	25.4	25.3	23.4	23.0	22.5
25	21.6	23.2	27.9	30.2	32.0	35.1	34.7	32.2
26	29.0	28.3	32.0	35.4	36.2	36.0	38.5	38.3
27	38.2	36.3	36.6	39.7	41.4	41.7	42.5	39.8
28	36.0	33.7	31.5	31.5	31.8	35.4	28.1	31.0
平均 Means.	26.3	24.9	27.0	29.2	30.5	30.5	29.4	27.8

明治二十年二月

FEBRUARY. 1887.

日次 Date.	寒暑鍼 THERMOMETER.							
	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	°
1	37.0	35.2	38.0	50.0	47.8	40 0	36.2	34.1
2	32.3	33.0	34.1	44.0	44.5	40.5	37.2	35.6
3	33.3	32.0	34.0	44.6	47.1	42.9	39.0	37.0
4	35.7	36.0	40.0	44.8	43.5	38.0	34.0	33.4
5	30.5	30.5	34.7	42.8	42.9	36.3	33.0	32.2
6	34.7	33.1	35.0	43.7	43.8	37.0	34.0	31.0
7	30.0	29.8	31.2	36.1	40.0	36.8	36.0	35.0
8	34.2	34.3	36 3	48.3	48.0	43.2	39.8	37.5
9	36 9	34.8	34.8	35.7	37.0	35.7	34.0	33.3
10	31.4	28.8	33.0	41.3	44.0	37.0	33.6	32.1
11	34.0	29.5	35.5	44.1	46.5	41.8	36.3	30.5
12	29.0	26.8	34.3	46.2	49.3	45.0	40.2	36.9
13	34.6	32.5	42 6	53.1	53.0	47.5	43.5	39.0
14	39.0	32.7	39.9	49.6	51.4	49.1	46.4	40.6
15	38.0	33.8	45.2	51 6	48.8	38.7	36.0	34.0
16	34.2	33.5	39.0	44.0	49.8	41.8	40.8	37.0
17	34.0	30.9	40.0	51 3	55.6	51.5	46.0	39.5
18	36.7	34.0	42.0	50.0	53.8	45 2	42.3	34.4
19	31.8	28.6	39.9	59.3	58.2	50.0	44.3	40.0
20	36.3	36.9	42.4	51.8	53.4	50.2	47.5	44.9
21	44.0	42.9	45.1	53.0	55.0	48.4	43.0	40.0
22	36.9	35.5	43.0	48.0	51.7	44.5	40.0	38.8
23	36.5	34.5	41.0	48.0	48.6	46.7	42 4	35.0
24	33.2	33.0	39.9	46.7	48.8	43.0	37.0	35.0
25	33.0	33.8	42.2	50.3	53.0	46.2	41.0	37.0
26	33.2	31.2	41.3	49.8	53.5	47.0	47.0	45.0
27	43.0	41.2	44.8	50.0	50.0	48.0	45.3	42.0
28	41.4	37.7	44.5	50.0	50.8	44.6	42.8	40.3
平均 Means.	35.2	33.4	39.1	47.4	48.9	43.5	40.0	36.8

改正風雨鍼
BAROMETER.
Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.615	29.609	29.664	29.685	29.740	29.834	29.888	29.918
2	29.953	29.992	30.035	30 041	30.007	30.028	30.060	30.083
3	30.076	30.072	30.069	30.003	29.918	29.882	29.876	29.828
4	29.795	29.809	29 825	29 773	29.750	29.808	29.823	29.830
5	29.841	29.855	29.912	29.879	29.837	29.875	29.883	29.907
6	29.902	29.932	30 015	30.006	29.994	30.056	30.060	30.094
7	30.098	30 107	30.128	30.083	30 009	30 005	29.973	29.926
8	29.853	29.801	29.782	29.768	29.767	29.824	29.881	29.903
9	29.909	29.958	30.040	30.027	30.013	30.037	30.044	30.028
10	29.985	29.984	30.010	29.995	29.981	30.067	30.113	30.122
11	30.133	30.207	30.255	30.247	30.192	30.210	30.213	30.222
12	30.246	30.207	30.223	30 167	30.074	30.049	30 000	29.961
13	29.890	29 879	29.928	29.885	29.909	29.967	30.028	30 017
14	30.018	30.030	30.012	29.944	29.864	29.832	29.834	29.837
15	29.843	29.891	29.975	29.975	29.992	30.117	30.201	30.254
16	30 267	30.317	30.368	30.353	30.292	30.291	30.251	30.212
17	30.154	30.126	30.132	30.066	29.998	30 002	30.065	30.092
18	30.129	30.192	30.255	30.246	30.203	30.218	30.234	30.191
19	30.156	30.151	30.133	30.069	30.027	30 043	30.112	30.121
20	30.117	30.114	30.130	30.059	29.973	89.926	29.952	29.938
21	29.893	29.936	29.983	29.958	29.935	29 989	30.054	30.068
22	30.052	30.097	30.143	30.134	30.096	30.127	30.170	30.168
23	30.163	30.186	30.209	30 176	30.101	30.099	30.142	30.140
24	30.117	30.138	30.148	30.119	30.092	30.140	30.191	30.202
25	30.187	30.191	30.223	30.199	30.154	30.209	30.244	30.225
26	30.205	30.195	30.194	30.144	30.063	30.067	30 063	30.029
27	29.937	29.983	29 957	29.894	29.839	29.818	29.812	29.819
28	29.803	29.812	29.853	29.813	29.759	29.778	29.792	29.788
平均 Means.	30.012	30.028	30.054	30.025	29.985	30.016	30.034	30.033

氣象觀測之月報
東京海軍觀象臺

MONTHLY REPORT
OF THE
METEOROLOGICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level. 平均 Mean.	高極 Max.	低極 Min.	寒暑鍼 Thermometer. 平均 Mean.	高極 Max.	低極 Min.	露點溫度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日溫度 高極 Vacuum solar radiation Max.	日溫度 高極 Solar radiation Max.	地溫度 低極 Terrestrial radiation Min.
	in	in	in	°	°	°	°	in		°	°	°
1	29.744	29.918	* 29.609	39.8	50.8	33.5	28.4	0.158	66	111.0	73.0	26.0
2	30.025	30.083	29.953	37.7	45.0	30.5	26.3	0.143	63	113.3	67.2	23.3
3	29.966	30.076	29.828	38.7	50.0	30.0	30.5	0.173	72	115.2	72.5	26.7
4	29.802	29.830	29.750	38.2	48.6	31.8	25.7	0.141	61	116.2	70.0	26.8
5	29.874	29.912	29.837	35.4	44.9	29.4	21.2	0.114	56	110.7	65.0	24.2
6	30.007	30.094	29.902	36.5	44.9	30.0	21.3	0.114	54	109.5	62.8	24.0
7	30.041	30.128	29.926	34.4	40.0	27.8	23.8	0.130	65	87.0	56.0	* 20.0
8	29.822	29.903	29.767	40.2	50.3	33.5	26.7	0.146	59	117.8	73.9	31.9
9	30.007	30.044	29.909	35.3	37.5	32.3	23.1	0.125	61	56.8	43.3	31.0
10	30.032	30.122	29.981	35.2	46.5	27.5	23.8	0.129	64	111.8	66.5	* 20.0
11	30.210	30.255	30.133	37.3	47.4	28.5	24.4	0.133	60	114.8	48.1	20.3
12	30.111	30.223	29.961	38.5	50.9	* 25.8	28.7	0.163	68	112.8	73.0	21.5
13	29.938	30.028	29.879	43.2	57.2	31.0	29.4	0.164	59	123.0	81.5	24.9
14	29.924	30.030	29.832	43.6	53.0	31.1	32.4	0.186	65	116.3	* 87.9	25.0
15	30.081	30.254	29.843	40.8	55.0	32.1	26.0	0.142	56	121.3	78.3	21.3
16	30.291	* 30.368	30.212	40.0	49.8	32.7	28.0	0.154	63	113.5	70.5	28.2
17	30.079	30.155	29.998	43.6	55.6	29.0	29.4	0.165	59	117.8	79.0	20.9
18	30.209	30.255	30.129	42.3	53.8	32.0	29.9	0.167	64	121.0	75.2	22.8
19	30.102	30.156	30.027	44.0	* 59.5	27.0	29.4	0.165	58	123.5	80.4	20.5
20	30.026	30.130	29.926	45.4	55.6	34.5	34.7	0.204	66	117.1	78.5	24.5
21	29.977	30.068	29.893	46.4	56.7	39.1	30.5	0.170	55	* 129.0	81.2	33.2
22	30.123	30.170	30.052	42.3	52.2	34.2	28.6	0.158	59	118.0	77.5	28.6
23	30.152	30.209	30.099	41.6	51.0	33.3	28.3	0.156	61	119.6	75.5	25.1
24	30.143	30.202	30.092	39.6	49.9	31.5	23.7	0.127	53	120.3	72.8	25.9
25	30.204	30.244	30.154	42.1	54.2	30.0	29.6	0.166	62	119.3	74.5	23.5
26	30.120	30.205	30.029	43.5	54.4	30.3	34.2	0.200	71	120.0	78.0	22.3
27	29.889	29.987	29.812	45.5	50.8	40.3	39.5	0.244	80	83.7	62.0	37.9
28	29.800	29.853	29.759	44.0	51.8	36.2	32.4	0.184	64	112.0	77.3	28.8
平均 Means.	30.023	...	...	40.5	...	...	28.2	0.158	62	...	...	...
至極 Max. & Min.	...	30.368	29.609	...	59.5	25.8	...	...	...	129.0	87.9	20.0

凡例

一風雨鍼ハ氷點及海面ニ改正ス

一寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一露點、濕氣、水氣張力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一風ノ方向及速力ハ自記風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一磁氣偏差ハ連日午前七時傾差及地平磁氣力ハ連月兩回之ヲ觀測ス

一此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一搖振時ノ觀測ニ用フル磁氣ノ尺度一割分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = $2'.37$.

觀象臺長	海軍五等技師	中川將行
觀測士		
觀測助手	海軍二等技手	伊藤直温
同	海軍屬	日比翁助
同	海軍屬	白井正信
同	海軍八等技手	小澤兼藏
同	海軍十等技手	永江董

(Signed) Director.

M. Nakagawa.

Observer.......................

Assistant.

N. Itō.

„ O. Hibi.

„ M. Shirai.

„ K. Ozawa.

„ T. Nagaye.

REMARKS.

Day.	
1	*f. p.*; *d.* after 9 p. m.
2	*f. p.*; *d.* after 6 p. m.
3	*f. p.*
4	*f. p.*
5	*f. p.*; *c.* after 6 a. m.; *s. h.* at 7 a. m.
6	C.; S. 8.25 a. m.—4 35 p. m.; *f. p.*
7	*f. p.*; *d.* 3 p. m.—6 p. m.
8	*f. p.* in a. m.; *d.* in p. m.; *f. p.* in night.
9	*f. p.*
10	*f. p.*; C. after 3 p. m.
11	C.; S. after 3.20 a. m.; R. 11 a. m.—7 p. m.; *f. d.*
12	B.; *d.* after 8 a. m.; N. w_2 in day.
13	C.
14	C.; R. 1 a. m.—11 p. m.
15	*f. p.* in a. m.; C. in p. m.; N. w_2 in day; E. at 6.51 p. m. & 7.47 p. m.
16	*d.* until day break; *f. p.* N. w_2 in day; E. at 10,11 p. m. & 10.26 p. m.
17	*f. p.*; C. after 9 p. m.
18	C.; S. 5 a. m.—9 p. m.; *f. d.*
19	*f. d.*; C. after 9 p. m.
20	C.; R. after 8.25 a. m.
21	R.
22	R. to 6.30 a. m.; *f. p.*
23	C.; R. after 9.55 a. m.; E. at 9.18 p. m.
24	R.; C. 4.10 a. m.—8.30 p. m.
25	R.; H. at 8.40 a. m.
26	R.; C., with R. at intervals after 1 p. m.
27	*d.*; *f. p.* after 11 p. m.
28	*f. p.*
29	*f. p.* in a. m.; C.; R. after 8.30 p. m.
30	R.; *r. b.* at 2.10 p. m.; R. ceased at 2.30 p. m.; *d.*; N. w_2 after 10 a. m.
31	B. until day break; *d.*; T. at 7.50 p. m.; *f. p.* after 10 p. m.; N. w_2 in a. m.

晴天 B. (Blue Sky). 陰天 C. (Cloudy Weather). 濛雨 D. (Drizzling, or Light Rain).
地震 E. (Earthquake). 霧 F. (Fog). 暗黒 G. (Dark, gloomy). 霰 H. (Hail).
霜 H. F. (Hoar Frost). 電 L. (Lightning). 濃霧 M. (Misty). 陰雲 O. (Overcast).
驟雨 P. (Passing shower). 嵐 Q. (Squally). 雨 R. (Rain). 雪 S. (Snow). 雷 T. (Thunder).
天氣險悪ノ模樣 U. (Ugly, threatening). 天氣不定 V. (Variable Weather). 露 W. (Dew).
霞霧 Z. (Hazy). 日暈 *s. h.* (Solar Halo). 月暈 *l. h.* (Lunar Halo). 虹 *r. b.* (Rainbow).
風 *w* (Wind). The force of wind is expressed by w_1, w_2, &c, as w_1 = slight, w_5 = strongest.
快晴 *f. p.* (Fine and pleasant). 薄晴 *f. d.* (Fine, but dull). 薄陰 *d.* (Dull).

記事

日	記事
一日	快晴午後九時過ヨリ薄陰
二日	快晴午後六時後薄陰
三日	晝夜快晴
四日	續テ快晴
五日	午前六時頃マテ快晴爾後漸々陰午前七時過日暈アリ
六日	陰午前八時二十五分頃ヨリ降雪　午後四時三十五分頃歇ミ後漸々快晴
七日	快晴午後三時過ヨリ同六時頃マテ薄陰
八日	午前快晴午後薄陰夜來復快晴
九日	晝夜快晴
十日	午後三時頃マテ快晴後漸々陰
十一日	陰午前三時二十分頃ヨリ降雪同十一時頃ヨリ細雨ニ變シ午後七時過歇ミ後薄晴
十二日	午前八時頃マテ晴爾後薄陰晝間北風稍强
十三日	晝夜陰天
十四日	陰午前一時過ヨリ午後十一時頃マテ降雨
十五日	午前快晴午後漸々陰晝間北風稍强　午後六時五十一分及同七時四十七分頃地震ス
十六日	拂曉前薄陰爾後快晴晝間北風稍强　午後十時十一分及同時二十六分頃地震ス
十七日	快晴午前九時頃ヨリ漸々陰
十八日	陰午前五時頃ヨリ午後九時過マテ降雪後薄晴
十九日	薄晴午後九時過ヨリ陰
二十日	陰午前八時二十五分頃ヨリ降雨
廿一日	續テ降雨
廿二日	午前六時三十分頃マテ降雨後漸々快晴
廿三日	陰午前九時五十五分頃ヨリ降雨　午後九時十八分頃地震ス
廿四日	午前四時十分頃マテ降雨後陰午後八時三十分頃ヨリ復降雨
廿五日	晝夜降雨午前八時四十分頃暫時霰ヲ交ユ
廿六日	午後一時過マテ降雨後陰天時々復細雨
廿七日	薄陰午後十一時過ヨリ快晴
廿八日	晝夜快晴
廿九日	午前快晴午後漸々陰同八時三十分頃ヨリ降雨
三十日	降雨午後二時十分頃北東ニ虹ヲ現ス同時三十分頃雨歇ミ後薄陰午前十時頃ヨリ北風稍强
卅一日	拂曉前晴後薄陰午後七時五十分頃遠雷ヲ聞ク同十時過漸々快晴午前北風稍强

地平磁針力
HORIZONTAL INTENSITY.

3rd Beginning time 3h 20m P. M. / Ending 4 40
三日午後三時二十分ヨリ同四時四十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	175 30 20	29 20	29 50				
	W.					2	168 52 40	52 0	52 20
	E.	3	175 30 10	29 20	29 45				
	W.					4	168 53 0	52 20	52 40
	E.	5	175 30 30	29 40	30 5				
平均	Means		175° 29′ 53″.3				168° 52′ 30″.0		
西 West.	W.					6	168 49 10	48 20	48 45
	E.	7	175 24 20	23 20	23 50				
	W.					8	168 49 20	48 40	49 0
	E.	9	175 24 20	23 40	24 0				
	W.					10	168 49 40	48 50	49 15
平均	Means.		175° 23′55″.0				168° 49′0″.0		

時振搖 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme. Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	4	19	21.0	55.0	0.3	59.5		
10	4	20	5.1					
20	4	20	49.7					
31	4	21	38.2					
41	4	22	23.2					
51	4	23	7.9					
100	4	26	46.5				7	25.5
110	4	27	31.0					25.9
120	4	28	15.4					25.7
131	4	29	4.3					26.1
141	4	29	49.0					25.8
151	4	30	33.0	53.8	15.1	44.9		25.1
平均 Means.				54.4	....		7	25.68

平均温度 Mean Temperature $t = 58°.4$ fah.

偏針角 Angle of Deflection $u = 3° 18′ 4″.6$

物捩差 Mean effect of 90° of Torsion $v = 2.43$

時儀日差 Daily rate $s = 1^s.65$ losing.

成果 Resulting absolute value $X = 6.3220$

30th Beginning time 3h 25m P. M. / Ending 4 30
三十日午後三時二十五分ヨリ同四時三十分ニ至ル

偏針角 Deflections.

磁氣 Mag.	北端 North end.	No.	A ° ′ ″	B ′ ″	Mean. ′ ″	No.	A ° ′ ″	B ′ ″	Mean. ′ ″
東 East.	E.	1	57 52 40	52 0	52 20				
	W.					2	51 14 20	13 40	14 0
	E.	3	57 52 20	51 50	52 5				
	W.					4	51 14 20	13 50	14 5
	E.	5	57 52 40	52 0	52 15				
平均	Means.		57° 52′ 7″.3				51° 14′ 2″.5		
西 West.	W.					6	51 12 0	11 20	11 40
	E.	7	57 46 40	46 0	46 20				
	W.					8	51 12 0	11 30	11 45
	E.	9	57 46 40	46 0	46 20				
	W.					10	51 12 30	12 0	12 15
平均	Means.		57° 46′ 20″.0				51° 11′ 53″.3		

時振搖 Oscillations.

振數 No. of Osc.	測時 Time. h	m	s	温度 Temp. °	尺度兩端之視閲數 Extreme Scale-readings.		百振之時 Time of 100 Oscillations. m	s
0	3	56	36.2	49.0	4.7	55.5		
10	3	57	21.0					
20	3	58	5.5					
31	3	58	54.8					
41	3	59	39.2					
51	4	0	23.8					
100	4	4	2.0				7	25.8
110	4	4	47.0					26.0
120	4	5	31.2					25.7
131	4	6	20.6					25.8
141	4	7	5.2					26.0
151	4	7	49.5	49.8	17.3	42.5		25.7
平均 Means.				49.4	....		7	25.83

平均温度 Mean Temperature $t = 49°.9$ fah.

偏針角 Angle of Deflection $u = 3° 18′ 7″.9$

物捩差 Mean effect of 90° of Torsion $v = 2.50$

時儀日差 Daily rate $s = 1.21$ losing.

成果 Resulting absolute value $X = 6.3208$

磁氣觀測之月報
東京海軍觀象臺

MONTHLY REPORT OF THE MAGNETICAL OBSERVATIONS,
NAVAL OBSERVATORY, TOKIO.

磁氣偏差
Magnetic Declination.

Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′	Day.	° ′
1	4 10.3	5	4 11.8	9	4 10.6	13	4 10.9	17	4 10.3	21	4 11.5	25	4 11.4	29	4 11.4
2	4 10.2	6	4 11.2	10	4 11.9	14	4 10.1	18	4 11.5	22	4 11.4	26	4 11.4	30	4 8.5
3	4 9.9	7	4 10.9	11	4 12.3	15	4 12.1	19	4 12.5	23	4 12.2	27	4 11.6	31	4 8.9
4	4 11.9	8	4 10.7	12	4 10.8	16	4 11.6	20	4 11.0	24	4 11.9	28	4 11.3		

平均 Mean = 4° 11′10

磁氣傾差
Magnetic Inclination.

3rd Beginning time 4^h 53^m P. M.; Ending time 5 15

三日午後四時五十三分ヨリ同五時十五分ニ至ル

極端A Polarity of Marked end A.								極端B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Face E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 42	49 41	50 13	50 12	48 26	48 25	49 45	49 29	49 32	49 35	49 6	49 6	50 4	50 2	49 48	49 52
49 44	49 40	50 13	50 12	49 28	49 26	49 44	49 26	49 45	49 45	49 2	49 5	50 9	50 10	49 45	49 46
49 43.0	49 40.5	50 13.0	50 12.0	49 27.0	49 25.5	49 44.5	49 27.5	49 39 0	49 40 0	49 4.0	49 5.5	50 6.5	50 6.0	49 46.5	49 49.0
49 44.8		50 12.5		49 26.3		49 36 0		49 39.5		49 4.8		49 6.3		49 47.7	
49 27.2				49 31.2				49 22.2				49 57.0			
49 29.2								49 39.6							

成果 Resulting Dip = 49° 34′.4

30th. Beginning time 4^h 55^m P. M.; Ending time 5 20

三十日午後四時五十五分ヨリ同五時二十分ニ至ル

極端A Polarity of Marked end A.								極端B Polarity of Marked end B.							
東面圈 Circle E.				西面圈 Circle W.				西面圈 Circle W.				東面圈 Circle E.			
東面針 Face E.		西面針 Face W.		東面針 Face E.		西面針 Face W.		西面針 Face W.		東面針 Face E.		西面針 Face W.		東面針 Facle E.	
A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′	° ′
49 46	49 44	50 10	50 8	49 59	49 57	49 43	49 40	49 29	49 30	49 6	49 10	49 59	50 0	49 53	49 57
49 49	49 48	50 14	50 12	49 52	49 51	49 30	49 27	49 26	49 29	49 3	49 6	50 16	50 18	49 50	49 52
49 47.5	49 46.0	50 12.0	50 10.0	49 55.5	49 54.0	49 36.5	49 33.5	49 27.5	49 29.5	49 4.5	49 8.0	50 7.5	50 9.0	49 51.5	49 54.5
49 46.8		50 11.0		49 54.8		49 35.0		49 28.5		49 6.3		50 8.2		49 53.0	
49 58.9				49 44.9				49 21.4				50 0.6			
49 51.9								49 39.0							

成果 Resulting Dip=49° 45′.5

天候
WEATHER.

日次 Date	雲之種類 Kind of Cloud. 卷雲 Cirrus.	積雲 Cumulus.	層雲 Stratus.	卷積雲 Cirro-Cumulus.	卷層雲 Cirro-Stratus	積層雲 Cumulo-Stratus.	卷積層雲 Cirro-Cumulo-Stratus.	降雨 Rain.	降雪 Snow	霧 Fog.	全晴 Clear.	陰部 Obscured part.	雨雪水量 Amount of Rain & Snow.
													in
1	...	...	1	2	...	...	...	...	...	...	5	1.5	...
2	...	...	...	1	1	...	...	...	...	...	6	2.0	...
3	...	...	...	2	...	...	...	...	...	...	6	0.4	...
4	...	...	1	...	...	...	...	...	...	...	7	0.1	...
5	1	...	...	2	2	1	...	...	...	...	2	5.9	...
6	...	...	1	1	1	...	...	...	3	...	2	6.8	...
7	...	1	...	3	...	...	...	...	...	...	4	1.1	0.20
8	...	...	...	2	...	...	...	...	...	...	6	1.1	...
9	...	...	...	...	...	...	...	...	...	...	8	0.0	...
10	...	...	1	2	3	...	...	...	...	...	2	3.5	...
11	...	...	2	1	...	...	...	3	2	...	...	9.3	...
12	...	...	...	1	4	...	2	...	...	...	1	7.3	0.22
13	...	...	2	4	...	...	2	...	...	...	...	9.9	...
14	...	...	1	1	...	...	...	6	...	...	...	10.0	0.02
15	...	...	3	4	...	...	1	...	...	...	...	4.4	0.66
16	3	1	...	4	...	...	...	...	...	...	...	2.1	...
17	1	...	...	1	...	...	...	...	...	...	6	1.4	...
18	...	1	...	1	...	...	...	...	6	...	...	9.8	0.22
19	1	...	...	4	1	2	...	...	...	...	...	8.1	0.84
20	...	...	2	1	...	...	...	5	...	...	...	10.0	...
21	...	...	...	1	...	...	...	7	...	...	...	10.0	0.41
22	...	...	2	3	...	1	...	2	...	...	...	5.4	0.20
23	...	1	1	2	...	...	...	4	...	...	...	9.8	...
24	...	...	2	...	...	3	...	3	...	...	...	10.0	0.23
25	...	...	...	...	...	...	...	8	...	...	...	10.0	0.56
26	...	...	1	3	...	...	...	4	...	...	...	10.0	0.41
27	...	1	...	5	...	2	...	...	...	...	...	8.5	0.03
28	...	1	1	2	...	...	...	...	...	...	4	0.8	...
29	1	...	...	1	2	...	...	2	...	...	2	6.1	...
30	...	...	...	1	3	...	...	4	...	...	...	9.3	0.83
31	...	2	...	1	...	5	...	...			...	7.4	0.70
合計 Sums.	7	8	21	56	17	14	5	48	11	...	61	...	5.53
平均 Means.	...	...	...	...	...	...	...	...	...	...	...	9.1	...

風
WIND.

日次 Date.	平穩時數 Hours of Calm.	北 N. 時數 Number of Hours.	北 N. 速力 Number of Miles.	東北 N. E. 時數 Number of Hours.	東北 N. E. 速力 Number of Miles.	東 E. 時數 Number of Hours.	東 E. 速力 Number of Miles.	東南 S. E. 時數 Number of Hours.	東南 S. E. 速力 Number of Miles.	南 S. 時數 Number of Hours.	南 S. 速力 Number of Miles.	西南 S. W. 時數 Number of Hours.	西南 S. W. 速力 Number of Miles.	西 W. 時數 Number of Hours.	西 W. 速力 Number of Miles.	西北 N. W. 時數 Number of Hours.	西北 N. W. 速力 Number of Miles.	計合 Total. 時數 Number of Hours.	計合 Total. 速力 Number of Miles.	最强 Strongest. 方位 Directions.	最强 Strongest. 速力 Miles.
1	1	23	143.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	143.0	N.	16.6
2	1	18	91.2	5	27.2	...	...	...	...	...	...	...	...	...	...	..	...	24	118.4	N.	7.9
3	...	23	95.0	1	4.0	...	...	...	...	...	...	...	...	...	...	...	...	24	99.0	N.	16.5
4	...	24	167.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	167.4	N.	12.5
5	2	22	76.5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	76.5	N.	9.0
6	...	14	87.7	...	...	...	...	...	...	...	...	...	...	...	...	10	35.7	24	123.4	N.	8.3
7	...	9	33.0	...	...	...	...	...	...	...	...	...	...	9	51.9	6	26.5	24	111.4	W.	9.9
8	...	15	154.2	...	...	...	...	...	...	...	...	...	...	1	5 4	8	23.7	24	183.3	N.	16.5
9	...	23	200.7	...	...	...	...	...	...	...	...	...	...	...	...	1	7.5	24	208.2	N.	17.3
10	...	24	192.4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	192.4	N.	19.5
11	1	23	131.0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	131.0	N.	10.3
12	...	16	270.3	5	21.2	...	...	...	...	...	...	...	...	...	...	3	5.0	24	296.5	N.	27.6
13	...	19	101.4	5	14.0	...	...	...	...	...	...	...	...	...	...	...	...	24	115.4	N.	9 7
14	...	21	244.8	...	...	..	...	...	...	...	...	...	...	...	...	3	44.4	24	289.2	N.	18.0
15	...	27	280.6	...	...	...	...	...	...	...	...	...	...	...	...	7	94.8	24	375.4	N.	* 29.6
16	...	20	315.2	...	...	...	...	...	...	...	...	...	...	...	...	4	52.2	24	367.4	N.	21.5
17	...	12	108.1	12	89.6	...	...	...	...	...	...	...	...	..	...	...	...	24	197.7	N.	16.3
18	...	23	281.4	...	...	...	...	..	...	...	...	...	...	...	...	1	10 3	24	291.7	N.	18.3
19	...	24	125.6	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	125.6	N.	9.8
20	...	24	101.6	...	...	...	...	...	...	..	...	...	...	...	...	...	...	24	101.6	N.	6.7
21	...	13	75.0	...	...	...	...	...	...	...	...	...	...	..	...	11	62.5	24	137.5	N.W.	8.5
22	...	11	69.3	4	29.5	9	27.6	...	...	...	...	...	...	...	...	..	...	24	126.4	N. E.	10.2
23	...	16	80.6	7	18.2	1	1.8	...	...	...	...	...	...	...	...	...	...	24	100.6	N.	6.5
24	...	6	50.8	7	36.8	11	51.3	...	...	...	...	...	...	...	...	...	...	24	138.9	N. E.	10.4
25	...	18	189.3	2	17.2	...	...	...	...	...	...	...	...	...	...	4	59.3	24	265.8	N.W.	17.0
26	...	24	81.1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24	81.1	N.	6.4
27	1	20	53.4	...	...	...	...	...	...	...	...	...	...	...	...	3	13.8	24	67.2	N.	9.0
28	3	11	43.0	10	77.1	...	...	...	...	...	...	...	...	...	...	...	...	24	120.1	N. E.	10.9
29	...	12	46.6	11	57.0	...	...	...	..	...	...	...	...	...	...	1	7.5	24	111.1	N. E.	8.6
30	...	16	264.1	...	...	...	...	...	...	...	...	...	...	...	...	8	93.4	24	357.5	N.	21.8
31	3	11	159.3	4	13.0	2	1.4	...	...	...	...	...	...	...	...	4	70.2	24	243.9	N.	21.1
計合 Sums.	12	552	4313.6	73	404.8	23	82.1	...	...	...	...	...	...	10	57·3	74	606.8	744	5464.6	..	...
極强 Max.	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	..	...	N.	29.6

日次 Date.	濕氣百分數 HUMIDITY. (Saturation = 100) 午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
1	51	51	56	47	47	85	73	60
2	58	70	65	60	58	57	77	64
3	82	86	73	53	47	51	63	53
4	50	45	56	44	44	52	53	54
5	52	53	62	46	45	59	61	70
6	68	63	78	93	92	93	94	79
7	58	55	65	52	56	64	66	58
8	49	70	56	55	64	50	42	38
9	48	58	49	48	48	55	59	53
10	51	44	60	44	46	61	74	67
11	68	100	83	91	91	91	92	93
12	100	57	58	54	51	55	57	67
13	71	67	69	57	56	72	73	72
14	78	77	95	96	96	94	95	96
15	70	53	54	52	49	54	55	60
16	60	61	78	57	52	59	66	71
17	82	53	60	57	52	58	61	53
18	64	89	100	100	90	94	91	91
19	85	90	72	71	62	79	76	78
20	87	81	91	88	95	95	97	91
21	98	98	97	95	98	96	97	99
22	95	94	89	71	57	72	91	85
23	86	87	86	94	96	95	94	96
24	99	98	84	70	67	74	78	92
25	97	99	98	98	96	98	98	98
26	98	96	98	95	92	93	90	93
27	93	95	90	61	60	80	60	72
28	67	76	62	55	54	69	75	67
29	74	93	57	55	57	69	72	98
30	98	95	98	98	88	77	58	57
31	60	57	61	53	53	85	77	99
平均 Means.	74	75	74	68	67	74	75	75

水氣張力

ELASTIC FORCE OF VAPOUR.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	0.093	0.087	0.128	0.131	0.150	0.174	0.133	0.113
2	0.099	0.094	0.133	0.187	0.207	0.206	0.192	0.166
3	0.160	0.137	0.162	0.213	0.211	0.139	0.125	0.104
4	0.092	0.073	0.121	0.117	0.117	0.105	0.094	0.085
5	0.071	0.068	0.113	0.125	0.131	0.128	0.134	0.123
6	0.118	0.109	0.134	0.165	0.168	0.165	0.154	0.126
7	0.096	0.085	0.133	0.140	0.158	0.138	0.116	0.085
8	0.072	0.084	0.100	0.134	0.145	0.093	0.066	0.057
9	0.061	0.062	0.084	0.131	0.126	0.109	0.100	0.092
10	0.086	0.070	0.128	0.117	0.137	0.133	0.151	0.127
11	0.125	0.167	0.149	0.171	0.174	0.175	0.182	0.181
12	0.177	0.170	0.165	0.172	0.167	0.154	0.154	0.158
13	0.165	0.153	0.161	0.171	0.186	0.200	0.200	0.178
14	0.175	0.175	0.204	0.222	0.240	0.240	0.241	0.242
15	0.184	0.136	0.130	0.140	0.137	0.123	0.115	0.114
16	0.105	0.107	0.154	0.132	0.127	0.117	0.120	0.121
17	0.126	0.081	0.115	0.134	0.129	0.118	0.107	0.095
18	0.108	0.134	0.148	0.153	0.156	0.172	0.179	0.185
19	0.174	0.173	0.151	0.181	0.177	0.185	0.174	0.169
20	0.187	0.170	0.192	0.203	0.214	0.208	0.210	0.198
21	0.218	0.237	0.230	0.237	0.253	0.244	0.243	0.235
22	0.223	0.215	0.227	0.250	0.225	0.222	0.208	0.211
23	0.211	0.213	0.226	0.254	0.266	0.262	0.262	0.262
24	0.263	0.235	0.242	0.220	0.220	0.216	0.218	0.226
25	0.208	0.192	0.196	0.209	0.217	0.228	0.208	0.209
26	0.214	0.207	0.226	0.232	0.235	0.229	0.215	0.219
27	0.225	0.192	0.219	0.200	0.194	0.230	0.157	0.160
28	0.144	0.143	0.155	0.166	0.174	0.178	0.158	0.127
29	0.136	0.176	0.126	0.148	0.166	0.179	0.177	0.193
30	0.192	0.188	0.208	0.235	0.296	0.261	0.207	0.189
31	0.179	0.163	0.174	0.184	0.205	0.261	0.231	0.264
平均 Means.	0.151	0.145	0.162	0.177	0.184	0.180	0.169	0.162

露點温度

DEW POINT.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M.	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	°	°	°	°	°	°	°	
1	17.6	15.3	23.8	24.3	27.5	31.1	24.7	21.0
2	18.2	17.2	24.6	32.9	35.4	35 3	33.5	29.9
3	29.1	25.3	29.4	36.1	35.9	25.6	23.4	19.3
4	16.6	11.9	22.7	21.9	21.9	19.5	17.2	14.8
5	11.0	10.2	21.1	23.3	24.3	23.8	24.9	23.0
6	22.1	20.3	24.9	29.7	30.2	29.7	28.2	23.5
7	17.0	14.8	24.6	25.9	28.8	25.5	21.7	14.8
8	11 3	14.5	18.5	24.8	26.6	16.7	9.6	6.1
9	7 7	7.9	14.6	24.4	23.5	20.3	18.5	16.6
10	15.2	10.9	23.9	21.9	25.4	24.6	27.7	23.7
11	23.3	30.0	27.3	30.6	31.0	31.2	32.1	32.0
12	31.5	30.4	29.7	30.7	30.0	28.1	28.1	28.7
13	29.7	28.0	29.2	30.6	32.7	34.6	34.6	31.6
14	31.2	31.2	35.1	37.2	39.3	39.3	39.4	39.5
15	32.4	25.2	24.2	25.9	25.4	23.0	21.5	21.3
16	19.4	19.9	28.2	24.5	23.6	21.9	22.4	22.7
17	23.5	13.7	21.5	24.8	24.0	22.0	19.9	17.4
18	20.0	24.8	27.2	28.0	28.4	30.8	31.7	32.6
19	31.0	30.9	27.7	32.0	31.5	32.6	31.1	30.3
20	32.9	30.5	33.5	34.9	36.3	35.6	35.8	34.3
21	36.7	38.9	38.1	38.9	40 6	39.7	39.6	38.7
22	37.3	36.4	37.8	40.3	37.6	37.2	35.6	35.9
23	35.9	36.1	37.7	40.7	41.9	41·5	41.5	41.5
24	41.6	38.7	39.3	38.0	37.0	36.5	36.8	37.7
25	35.5	33.5	34.0	35.7	36.6	37.9	35.5	35.7
26	36.3	35.4	37.7	38.4	38.7	38.0	36.4	36 9
27	37.5	33.5	36.9	34.6	33.8	38·1	28.6	29.1
28	26.5	26.4	28.3	29.9	31.1	31.6	28.8	23.7
29	25.1	31.3	24.0	27.2	29.8	31.8	31.5	33.6
30	33.5	33.0	35.5	38.7	44.7	41.4	35.4	33.2
31	31.7	29.5	31.0	32.4	35.2	41.4	38.3	41.7
平均 Means.	26.4	25.3	28.8	30.9	31.9	31.2	29.5	28.1

日次 Date.	寒暑鍼 THERMOMETER. 午前三時 3 A. M.	 午前六時 6 A. M.	 午前九時 9 A. M.	 正午 Noon.	 午後三時 3 P. M.	 午後六時 6 P. M.	 午後九時 9 P. M.	 正子 Midnight.
	°	°	°	°	°	°	°	°
1	33.1	30.1	38.0	43.0	46.8	35.0	32.0	33.0
2	30.9	25.0	35.0	46.3	50.0	46.7	40.2	41.2
3	33.8	29.0	37.3	53.1	55.9	42.6	34.9	34.3
4	32.7	29.5	36.8	42.5	42.0	34.8	31.8	28.7
5	25.5	24.0	32.2	42.2	44.1	46.2	37.0	31.3
6	31.0	31.0	30.4	31.2	32.5	31.5	29.5	29.0
7	29.2	27.8	35.0	42.5	43.3	36.4	31.5	27.3
8	27.0	22.6	32.2	39.3	37.0	32.5	29.7	27.5
9	23.8	19.4	31.1	42.5	41.8	34.5	31.5	31.0
10	30.8	29.0	36.3	42.0	44.3	36.8	35.0	33.2
11	32.3	30.0	31.5	33.0	33.4	33.6	34.0	33.8
12	31.5	44.5	43.5	46.7	47.5	43.1	42.5	38.9
13	38.6	37.9	38.7	45.1	47.3	43.2	42.5	39.9
14	37.2	37.8	36.6	38.1	40.2	40.9	40.5	40.4
15	41.4	40.8	39.0	42.5	43.0	37.5	35.5	33·0
16	31.3	31.2	34.0	38.5	39.8	34.5	32.2	30.5
17	28.1	28.2	33.8	38.8	40.0	35.0	31.0	31.6
18	30.0	27,5	27.2	28.0	30.7	32.9	33.9	34.9
19	34.9	33.5	35.8	41.0	43.7	38.6	37.9	36.6
20	36.5	35.6	36.0	38.2	37.5	36.8	36.5	36.7
21	37.2	39.4	38.8	40.0	41.0	40.6	40.3	38.9
22	38.5	38.0	40.8	49.5	52.3	45.8	38.0	40.0
23	39.8	39.5	41.7	42.5	43.0	42.8	43.0	42.6
24	42.0	42.0	43.7	47.3	47.5	44.5	43.0	39.8
25	36.2	33.8	34.5	36.2	37.5	38.4	36.0	36.2
26	36.8	36.4	38.2	39.5	40.7	39.8	39.2	38.8
27	38.0	34.8	39.7	47.3	47.5	44.0	41.6	37.3
28	36.0	33.0	40.2	45.0	47.0	41.0	35.8	33.5
29	32.0	33.1	37.8	42.3	44.0	41.2	39.8	34.1
30	34.0	34.4	36.0	39.2	48.2	48.3	49.8	47.7
31	44.9	43.9	46.0	49.0	52.0	45.7	45.2	41.9
平均 Means.	34.0	33.0	36.7	41.7	43.3	39.2	37.1	35.6

改正風雨鍼

BAROMETER.

Reduced to 32° F. and sea level.

日次 Date.	午前三時 3 A. M.	午前六時 6 A. M	午前九時 9 A. M.	正午 Noon.	午後三時 3 P. M.	午後六時 6 P. M.	午後九時 9 P. M.	正子 Midnight.
	in	in	in	in	in	in	in	in
1	29.994	30.048	30.089	30.081	30.045	30.080	30.069	30 026
2	29.972	29.950	29.909	29.828	29.797	29.812	29.821	29.781
3	29.751	29.737	29.741	29.670	29.615	29.682	29.744	29.769
4	29.797	29.829	29.898	29.888	29.894	29.967	30.002	30.007
5	30.050	30.062	30.106	30.071	30.047	30.077	30.066	30.009
6	29.987	29.939	29.927	29.800	29.665	29.604	29.581	29.585
7	29.621	29.684	29.765	29.758	29.734	29.795	29.840	29.900
8	29.928	29.929	29.968	29.962	29.969	30.043	30.105	30.144
9	30.144	30.182	30.215	30.175	30.162	30.233	30.279	30.300
10	30.345	30.378	30.425	30.399	30.384	30.402	30 431	30.411
11	30.391	30.338	30.327	30.225	30.099	29.974	29 828	29.765
12	29.799	29.923	30.081	30.097	30.095	30.178	30 232	30.269
13	30.255	30.267	30.316	30.274	30.235	30.264	30.265	30 200
14	30.189	30.132	30.101	29.937	29.897	29.832	29.780	29.744
15	29.752	29.820	29.902	29.916	29.937	30.019	30.050	30.079
16	30.132	30.204	30.272	30.242	30.244	30.304	30.383	30.402
17	30.430	30.460	30.513	30.477	30.428	30.411	30.509	30.424
18	30.390	30.368	30.322	30.232	30.171	30.158	30.185	30.157
19	30.169	30.182	30.262	30.240	30.243	30.258	30.288	30 250
20	30.238	30.211	30.206	30.146	30.050	30.029	29.997	29.963
21	29.943	29.935	29.990	29.972	29.966	30.014	30.072	30.086
22	30.109	30.172	30.242	30.244	30.207	30.235	30.277	30.257
23	30.224	30.222	30.234	30.197	30.125	30.120	30.111	30.074
24	30.060	30.071	30.155	30.165	30.165	30.202	30 216	30.183
25	30.170	30.139	30.130	30.034	29.976	29.979	30.036	30.050
26	30.031	30.059	30.085	30.066	30.044	30.061	30.101	30.116
27	30.122	30.125	30.159	30.132	30.105	30.110	30.132	30.129
28	30.125	30.146	30.207	30.193	30.160	30.207	30.251	30.257
29	30.296	30.343	30.385	30.351	30.280	30.295	30.257	30.154
30	30.030	29.883	29.782	29.620	29.555	29.606	29.645	29 666
31	29.701	29.738	29.777	29.765	29.723	29.741	29.704	29.651
平均 Means.	30.069	30.080	30.113	30.071	30.033	30.055	30.073	30.058

氣象觀測之月報

東京海軍觀象臺

MONTHLY REPORT

OF THE

METEOROLOGICAL OBSERVATIONS,

NAVAL OBSERVATORY, TOKIO.

Lat. 35° 39′ 17″5 N. Long. 139° 44′ 30″3 E. Height above sea-level 70 feet.

日次 Date.	改正風雨鍼 Barometer. Reduced to 32 F. & sea level.			寒暑鍼 Thermometer.			露點温度 平均 Mean Temp. of Dew point.	水氣張力 平均 Mean elastic force of Vapour.	濕氣百分數 平均 Mean Humidity (Sat.=100).	無氣中日温度 高極 Vacuum solar radiation Max.	日温度 高極 Solar radiation Max.	地温度 低極 Terrestrial radiation Min.
	平均 Mean.	高極 Max.	低極 Min.	平均 Mean.	高極 Max.	低極 Min.						
	in	in	in	°	°	°	°	in		°	°	°
1	30.054	30.089	29.994	36.4	46.8	28.4	23.2	0.127	59	108.3	60.5	20.5
2	29.859	29.972	29.781	39.4	50.5	23.2	28.4	0.161	64	106.7	65.6	19.2
3	29.714	29.769	29.615	40.1	* 56.5	28.1	28.0	0.156	64	115.1	72.1	21.1
4	29.910	30.007	29.797	34.9	43.5	27.4	18.3	0.101	50	107.0	61.2	19.0
5	30.061	30.106	30.009	34.1	44.9	22.0	20.2	0.112	56	99.9	73.9	15.4
6	29.761	29.987	29.581	30.8	34.6	29.0	26.1	0.142	83	42.0	37.5	24.0
7	29.762	29.900	29.621	34.1	44.7	26.3	21.6	0.119	59	* 117.0	64.8	20.0
8	30.006	30.144	29.928	31.0	39.7	20.4	16.0	0.094	53	104.0	61.0	16.1
9	30.211	30.300	30.144	32.0	44.1	* 18.2	16.7	0.096	52	107.1	* 83.5	* 12.0
10	30.397	30.431	30.345	35.9	44.4	27.9	21.7	0.119	56	106.0	62.8	21.0
11	30.118	30.391	29.765	32.7	35.5	29.2	29.7	0.166	89	49.8	42.0	28.8
12	30.084	30.269	29.799	42.3	47.7	30.7	29.7	0.165	62	77.9	52.9	26.0
13	30.260	30.316	30.200	41.7	47.3	36.0	31.4	0.177	67	105.0	69.0	35.0
14	29.958	30.188	29.744	39.0	40.9	35.3	36.5	0.217	91	52.0	43.0	34.0
15	29.934	30.079	29.752	39.1	44.0	37.5	24.9	0.135	56	* 117.0	61.9	30.0
16	30.273	30.402	30.132	34.0	44.0	29.9	22.8	0.123	63	105.6	57.0	25.5
17	30.457	* 30.513	30.411	33.3	40.3	27.0	20.9	0.113	60	103.4	58.9	21.6
18	30.248	30.390	30.157	30.6	35.0	26.1	27.9	0.154	90	35.0	31.8	26.0
19	30.237	30.288	30.169	37.8	45.0	31.7	30.9	0.173	77	101.0	61.0	28.7
20	30.105	30.238	29.963	36.7	38.2	34.5	34.2	0.198	91	55.0	42.0	33.0
21	29.997	30.086	29.935	39.5	42.0	35.5	38.9	0.239	97	59.0	45.7	35.0
22	30.218	30.277	30.109	42.9	53.0	37.0	37.3	0.223	82	113.7	72.0	29.7
23	30.163	30.234	30.074	41.9	43.0	37.5	39.6	0.245	92	55.0	45.5	34.0
24	30.152	30.216	30.060	43.7	48.3	40.9	38.2	0.231	83	95.8	64.9	37.4
25	30.064	30.170	29.976	36.1	38.4	33.0	35.6	0.208	98	56.0	47.0	31.9
26	30.070	30.116	30.031	38.7	40.8	35.5	39.2	0.222	94	53.0	43.2	34.5
27	30.127	30.159	30.105	41.3	49.0	34.0	34.0	0.197	77	102.8	62.2	29.6
28	30.193	30.257	30.125	38.9	47.6	32.0	28.3	0.156	66	110.3	67.8	24.9
29	30.295	30.385	30.154	38.0	44.8	29.1	29.3	0.163	72	106.5	63.0	21.9
30	29.723	30.030	* 29.555	42.2	49.8	33.1	36.9	0.222	84	97.6	60.1	31.6
31	29.725	29.777	29.651	46.1	52.5	42.5	35.2	0.208	68	93.3	76.0	36.0
平均 Means.	30.069	...	...	37.6	...	...	29.0	0.166	73	...	...	...
至極 Max. & Min.	...	30.513	29.555	...	56.5	18.2	...	...	...	117.0	83.5	12.0

凡例

一 颶雨鍼ハ氷點及海面ニ改正ス

一 寒暑鍼ハ都テ華氏ノ度表ヲ用フ

一 露點、濕氣、蒸發力、ハ燥濕兩球寒暑鍼ノ實驗ヨリ算出ス

一 風ノ方向及速力ハ自記驗風儀ヲ以テ之ヲ測ル而シテ方向ハ八點ニ分チ速力ハ英里ヲ以テ算ス

一 天候ノ表中降雨、降雪、靄霧、雲ノ種類ハ悉皆觀望ノ時數ヲ掲ゲ陰部ハ一日間全陰ヲ十トシ他ハ之ニ比例ス

一 又雨雪ノ水積ハ毎午前九時ニ實驗シ英寸ヲ以テ之ヲ示ス

一 磁氣偏差ハ連日午前七時傾差及地平磁針力ハ連月兩回之ヲ觀測ス

一 此觀測ノ用器ハ偏差儀傾差儀及「ユーニファイラ」磁氣儀ナリ

一 偏針角ノ觀測ニ於テ兩磁氣中心ノ相距ハ一、三英尺トス

一 搖振時ノ觀測ニ用フル磁氣ノ尺度一劃分ノ價ハ二分、三七ナリ

NOTE.

The Barometer readings are reduced to freezing point (32° F) and sea level.

Dew point, Humidity and Elastic force of Vapour are deduced from the readings of the dry and wet bulb thermometers.

Direction and Velocity of Wind are measured by Glayser's anemograph.

The numbers under the headings of Rain, Snow, Fog and the kinds of Cloud (C. K. S. N. or Rain) denote how many, out of eight observations made in a day, are either of them.

The portion of sky obscured is determined by estimation after a careful scrutiny of the clouds or sky. A clear sky is denoted by 0, and a total obscuration by 10.

The amount of Rain and Snow are measured at 9 a. m.

The Magnetic declination is observed at 7 a. m. every day, the inclination and the horizontal intensity twice a month, the instruments in use being Declinometer, Inclinometer, and Unifilar Magnetometer.

The apparent distance between the centers of the deflecting and the suspending magnets in the observation of deflection, $r = 1.3$ feet.

The angular value of one scale division of the vibration magnet = 2′.37.

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